aaxa
TECHNOLOGIES

P4X ANDROID
PICO PROJECTOR

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 and charger away from any heat sources.

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

P4X Android at a Glance   **Chapter 1**

Main Unit Front/Back

Touchpad
Power Button
Micro SD Card Slot
Focus Adjustment
Projection Lens

Volume Adjustment
Mini USB Port
HDMI Port

Power Port
VGA Port
AV Port
Headphone Out

Remote & Keypad

Power On/Off
Main Menu
Navigation
Volume Down
Video Play Menu

Select Source
Mute
Volume Up
Back
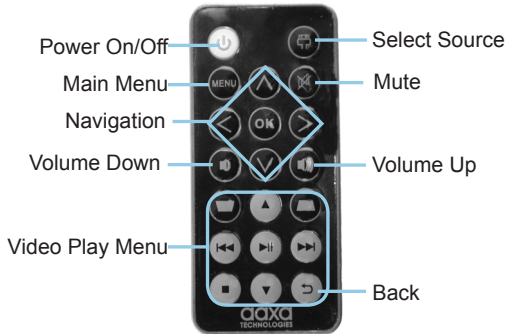
Remote

* P4X Android does NOT support keystone feature.

NOTE: Pressing power on the remote once will only enable or disable the remote control. In order to fully turn the projector off, hold the power button down on the remote or projector for at least 3 seconds.

Remote & Keypad Cont.

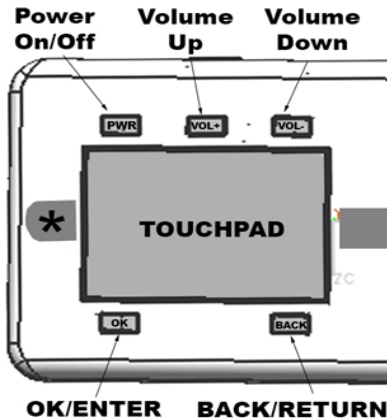The P4X Android incorporates a capacitive touchpad directly onto the top of the projector. This touchpad works in conjunction with a pointer and allows users to select icons, APKs, and scroll through the menu system. Like most notebook touchpads, the touchpad can be double-tapped for a click or used in conjunction with the Enter and Back buttons below the touchpad.
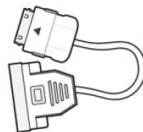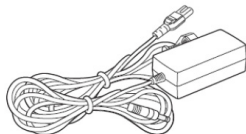
Accessories

Tripod

Remote

VGA Cable

Power Adapter
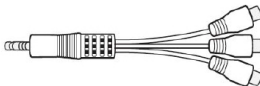
A/V Cable

Mini USB to USB Adapter

*Under various circumstances, the actual accessories may be different from those shown in the pictures above.
Additional accessories are available for purchase at www.aaxatech.com

Getting Started

Chapter 2

Plugging In the projector
1. The P4X Android needs to be plugged in and charged for four hours before operation.

Powering ON the projector
1. Connect the power cord to the P4X Android.
2. Connect the other end of the power cord into the wall power source.
3. Hold the power button ⏻ for 3 seconds to start the projector.

Powering OFF the projector
1. To turn off the projector, hold the power button ⏻ for 3 seconds. This will fully turn off the projector.

Connecting to WiFi
1. View page 6 for details.

Connecting to WiFi

Connecting to WiFi:
- Select the "Settings" icon (Fig. 2.1).
- Select the "Network Settings" option and navigate to your WiFi network and click on it to connect.
- A window will appear and ask for a password, please type it in. When finished, press "Connect" and the projector will connect to your WiFi (Fig. 2.2).

Fig. 2.1

Fig. 2.2

Please see next page for steps to establish to a WiFi connection.

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Connecting to WiFi FAQ

Connecting to WiFi:

P4X Android features a WiFi chipset capable of 802.11 b/g/n connection. This means it is compatible with most WiFi routers. To connect to a WiFi router, follow the following steps:
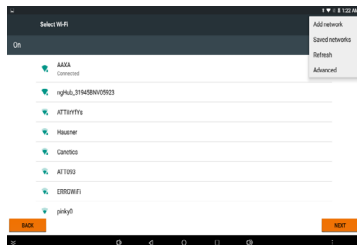
> Step 1: Access the Network Settings Submenu: Settings -> Network Settings
>
> Step 2: Turn WiFi radio to "On" by highlighting and toggling the WiFi Button under WiFi settings
>
> Step 3: Select the appropriate Router
>
> Step 4: Enter the router password in the password selection (by pressing "OK"). It is recommended that the automatic IP address acquisition be turned on

Troubleshooting

> 1. Unable to connect
>   a. Check Security Settings – WPA/WPA2 PSK
>   b. Check if Router is in range

Focus Adjustment / Throw Distance

Focus Adjustment

- Spin the focus wheel left or right until the image becomes clear.
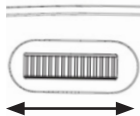
Throw Distance Chart

| Throw Distance | Diagonal Size |
Unit: Inches	Unit: Inches
12	6.3
18	9.5
24	12.6
30	15.8
36	18.9
74	38.9
84	44.2
96	50.5

DIAGONAL SCREEN SIZE

16:9 Aspect Ratio
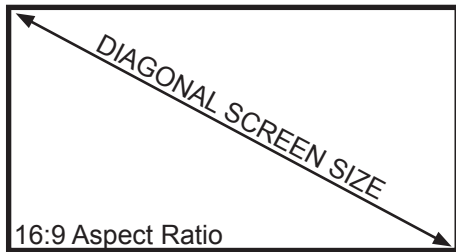
Throw Ratio 1.9

Projection Angle: 33.4°

*minimum throw distance: 10 inches

External Inputs and Outputs

Micro SD

Front of The Projector

Back of The Projector

Composite AV

Mini VGA

Mini USB

Headphones

Mini HDMI

Navigating the Main Menu

Main Menu

The Main Menu allows access to all the features of the P4X Android.

Play Videos or Pictures   Input Selection   Office File Viewer   Apps Submenu

Streaming Content   Settings Sub-Menu   Smartphone Mirroring
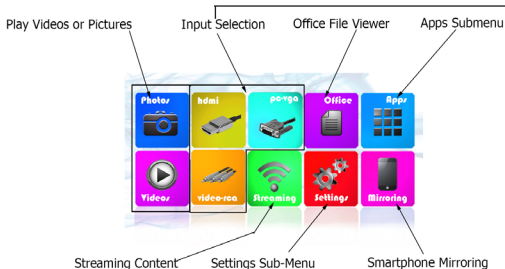
Inputs

- **HDMI** - Brings up connection via HDMI
- **PC-VGA -** Brings up connection via VGA
- **Video-RCA** - Brings up connection via A/V

Main Menu Features

- **Photos** - View photos from external devices such as microSD card and USB
- **Videos** - View videos from external devices such as microSD card and USB
- **Office** - View files from external devices such as microSD card and USB
- **Settings** - Brings up Application Manager, Network Settings, Bluetooth Settings, Language Settings, Backup&Reset, Projector Settings, and etc
- **Apps** - Brings up all apps that are already preinstalled or downloaded
- **Mirroring** - Mirroring your phone screen on the projector screen
- **Streaming** - Brings up Youtube, Netflix, Crackle, Hulu, Twitch, and Vevo

Navigating the Main Menu Cont.

Pop-Up Menu:
The Pop-Up Menu appears after turning the projector on and it can be hidden by clicking the "down" arrow at the bottom of the screen. Double tap, hold down on the touchpad, and drag up to bring up the Pop-Up Menu.

The Pop-Up Menu allows the user to access Previous Menu, Main Menu, Open Applications, and Adjust Volume.

"Down" arrow and Pop-Up Menu

Loading External Content

The P4X Android can read files directly from both a Micro SD Card and USB Drive.

Supported file types include:
MP3 / WMA / OGG / WAV
AVI / JPG / GIF/ BMP / XLS
PPT / DOC / PDF / TXT

(up to 32 GB)   (up to 32 GB)

Loading External Content Cont.

How to insert your USB Drive
- Slide your USB Drive into one end of the USB Adapter Cable and slide the other end of the USB Adapter Cable into the mini-USB port on the back of the P4X Android (as shown below in the picture).
- Gently slide the drive until it cannot go in any further.

(up to 32 GB)

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

Loading External Content Cont.

How to insert your Micro SD Card
- Slide in your microSD card into the microSD card slot on the side of the P4X Android (as shown in picture).
- Gently slide the SD card until it clicks into place.

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

(up to 32 GB)

Loading External Content Cont.

Once your microSD Card or USB Drive is inserted into the projector, the microSD Card or USB Drive Storage will be loaded automatically and the content can be found through:

Photos Menu
• Photo can be shown by clicking "Photos" on the Main Menu.
Videos Menu
• Video can be played by clicking "Video" on the Main Menu.
Office Menu
• .pdf, .docx, .xls, .ppt, .txt can be shown by clicking "Office" on the Main Menu.

Photos Menu

Fig. 2.3

- To view pictures, access the content via the "Photos" icon (Fig 2.3).
- All albums from internal and external storage will be displayed (Fig 2.4).
- Select the album and choose the picture you want to view (Fig 2.5).
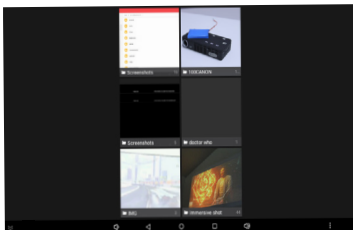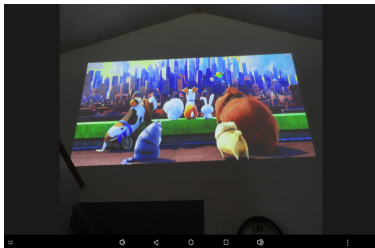

Fig. 2.4

Fig. 2.5

Photo Menu Cont.

- To access to the previous photo, drag the current photo to the left.
- To access to the next photo, drag the current photo to the right.
- Double press the "OK" button or double tap the touchpad once to zoom in on the picture. Double press the "OK" button or double tap the touchpad again to return the picture to its original size.

Video Menu

- To view videos, access the content via the "Videos" icon (Fig 2.6).
- All sources will be displayed. Select the source and choose the video you want to view (Fig 2.7).
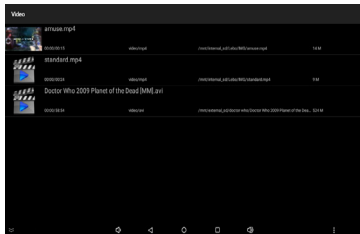

Fig. 2.6

Fig. 2.7

Video Submenu

While Playing Videos

While playing videos the volume is adjustable. To adjust volume, press the volume buttons on the remote or projector or access the Pop-Up menu and adjust through the volume icon. Further controls are available in the Video Player Submenu - which is accessed through the "OK" button.

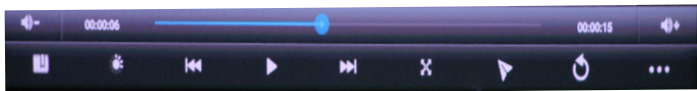$\boxed{\text{OK}}$ Enter Video Submenu
- To open/hide the video playback menu, use the "OK" and "Back" Buttons on the projector.

The Video Submenu allows the following functions
- i. Insert bookmark - allows to start the video from the bookmark inserted
- ii. Adjust brightness
- iii. Next / Previous Video – Play the next / previous video
- iv. Play / Pause
- v. Full Screen
- vi. Go Back
- vii. More

Video Submenu Cont.

More functions can be accessed on the bottom-right corner by clicking
the 3-horizontal points.

    i. Delete bookmark and play from beginning
    ii. Delete bookmark
    iii. Play mode
    iv. External, embedded subtitles priority selection
    v. Embedded Subtitle Select
    vi. Audio Track Select
    vii. Help
    viii. Return
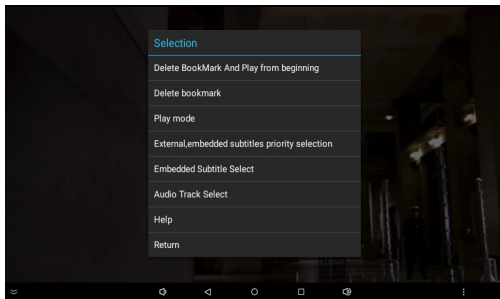
Video Submenu Cont.

How do I loop a video?

1. On the "Submenu," click the 3-horizontal points to access more functions.
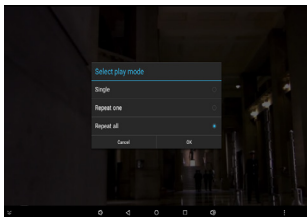2. Click "Play Mode" and select from "Single," "Repeat One," "Repeat All."
3. To repeat a specific video, select "Repeat One."
4. To repeat all video, select "Repeat All."
5. To stop loop, select "Single."

How do I turn on the subtitles (if available)?

1. On the "Submenu," click the 3-horizontal points to access more functions. ...
2. Select "Embedded Subtitle Select" if the subtitles are hardcoded into video.
3. If using a seperate subtitle file, click "External, embedded subtitles priority selection" first and choose the external selection.

Play Mode Menu
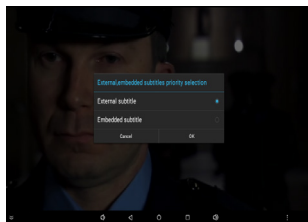
Subtitle Menu

After the entire list has played, the projector will automatically go back to the video list.   21

Connecting to a Computer via HDMI

Step 1:
Connect one end of the HDMI Adapter
Cable to your computer's HDMI port.

Step 2:
Connect the other end of the HDMI Adapter
Cable to your P4X Android's mini HDMI port.

Step 3:
In the Main Menu, select the "HDMI" Icon.

Select the "HDMI" icon

Connecting to a Computer Cont.

Step 4:

Enabling HDMI output on your Computer – To enable 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 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:
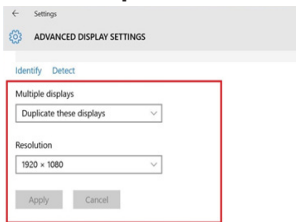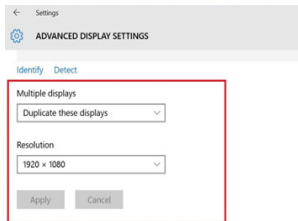
1. Right click on computer desktop and select "Screen Resolution."
2. Display Properties window will pop up and select the Advance Display Settings.
3. Please make sure the "Multiple displays" has the "Duplicate these displays" option selected and the Resolution is 1920 x 1080 or below as pictured in the red box.
4. If the image is blurry or the text is not legible, adjust the screen resolution.

Connecting to HDMI Video Source

In the Main Menu

Select the "HDMI" Icon

Connectivity to Multimedia Devices

The P4X Android can connect to many media devices including: iPod, iPhone, iPad, DVD players, smart phones, cameras, video game consoles and other peripherals with ease.

Some smartphones require video out capabilities to be displayed with the P4X Android. Check with your phone manufacturer.

Connecting to a Computer via VGA

Step 1:
Connect one end of the VGA Adapter
Cable to your computer's VGA Port.

Step 2:
Connect the other end of the VGA Adapter
Cable to your P4X Android's VGA port.

Step 3:
In the Main Menu, select the "PC-VGA" Icon.

Select the "VGA" Icon

Connecting to a Computer Cont.

Step 4:

Enabling VGA output 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:

Step 6:

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

*NOTE: Different operating systems may differ

1. Right click on computer desktop and select "Screen Resolution."
2. Display Properties window will pop up and select the Advance Display Settings.
3. Please make sure the "Multiple displays" has the "Duplicate these displays" option selected and the Resolution is 1920 x 1080 or below as pictured in the red box.
4. If the image is blurry or the text is not legible, adjust the screen resolution.

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Connecting to Composite Video

Step 1:

Connect the 3.5mm Composite A/V
Cable to the side of the P4X Android.

Step 2:

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

Connecting to Composite Video Cont.

Step 3:

In the Main Menu

Select the "Video-RCA" Icon

Step 4:

Turn on your multimedia device.

*Some smartphones require video out capabilities to be displayed with the P4X Android.
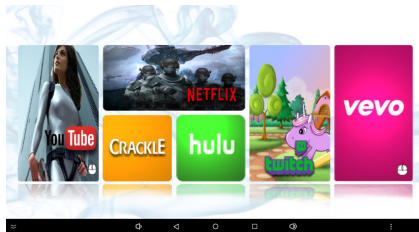*Check with your phone manufacturer for details.*

Streaming Applications

Streaming Application
- To access the Streaming Application, select "Streaming" from the Main Menu.
- The P4X Android enables video streaming from selected applications. Please visit the product website for additional information and firmware updates.

Main Menu Screen   Streaming Screen

- Streaming applications are accessible after WiFi internet service is established. Most applications require a log-in account.
- Applications with the "mouse" icon require the use of touchpad to navigate correctly.

Streaming Applications Cont.

Troubleshooting

Application Hangs or Freezes
- Try clearing the cache (see Settings - Application Manager)

Update Required
- If an update is required, you may be able to obtain it from the product website (through "Browser" in the "Apps")

Poor Video Playback
- Possible Causes:
    Poor WiFi Connection
    Too many open applications
   More than one Bluetooth device connected

Connecting to a Bluetooth Device

Connecting to Bluetooth:
- Select the "Settings" icon (Fig. 2.8).
- Select the "Bluetooth Settings" option and navigate to your Bluetooth Device and click on it to connect (Fig. 2.9).
- The projector features a Bluetooth radio (BT). The Bluetooth radio is designed to connect Bluetooth enabled device, typically a Bluetooth Speaker. The projector supports one Bluetooth device at a time.

Fig. 2.8

Fig. 2.9
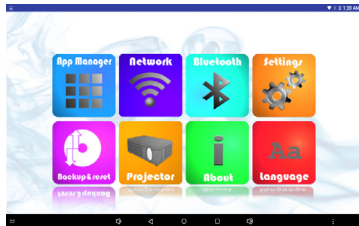
Please see next page for steps to connect to a Bluetooth device

Bluetooth Speaker

To connect a Bluetooth Speaker

Step 1: Access the Bluetooth Menu (Settings → Bluetooth)

Step 2: Turn on Bluetooth functionality

Step 3: Turn on your Bluetooth device and enable discovery. This varies with each device. Some devices require the power switch to be turned "ON". Other devices have a Bluetooth icon that is pressed to make the device "discoverable"

Step 4: If your device does not pop up automatically, click on "Scan for Devices"

Step 5: Highlight your device and click "OK" to connect. Your device should show "connecting." If a PIN is asked, try 0000 or 1234 – these are the standard PIN codes. If this does not work, check with your device manufacturer for the PIN

Troubleshooting

- Disconnecting. It takes 10-15 seconds for a BT device to connect or disconnect from the system. Failure to wait for this time could result in an improper connection. Check to ensure device is connected in the BT submenu.

- If the Bluetooth device does not automatically reconnect please go to the Bluetooth settings and press on the device to reconnnect to it.

- If the device still does not reconnect please press on the icon on the right of the device's name to unpair the device and pair it again.

Office Menu

Microsoft Office and Adobe PDF Documents
- Microsoft Office and Adobe PDF Documents can be viewed with the document viewer.
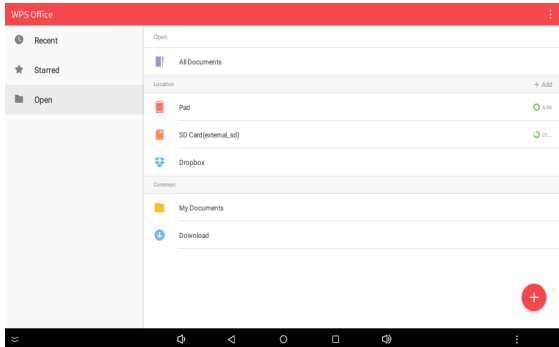- To access the document viewer, select "Office" from the Main Menu.

Main Menu Screen

Viewing Office Documents Cont.

Choosing Documents to View

- In the Office application, select "Folders" or "Cloud Storage" to view the files you wish to see.
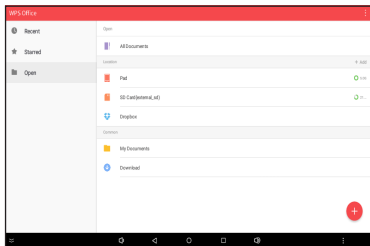

Office Main Menu

Office Viewer Application

- Documents from the microSD Card and USB Drive can be viewed.
- Documents from Dropbox with accounts connected may be viewed.
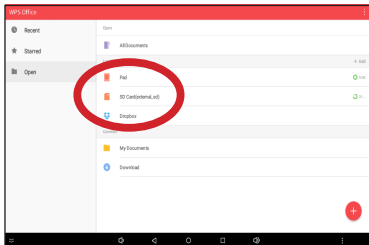- Supported file formats include *.DOC, *.XLS, *.PPT, *.PDF.

Some file versions may not be compatible and file names must be alphanumeric only.

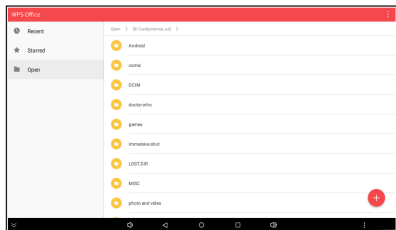# Viewing Office Documents Cont.

Step 1:
Open "Office"

Step 2:
Select Source

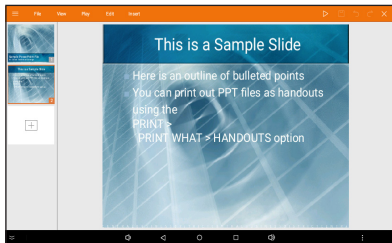# Viewing Productivity Documents Cont.

Step 3:
Highlight the Office File and click "OK"

Step 4:
The file should display automatically

Note: For a more comprehensive user guide
please visit our FAQ section or search online for
Kingsoft WPS Office Viewer user guide

Need help with the document viewer? Please e-mail us at pro_support@aaxatech.com

Apps

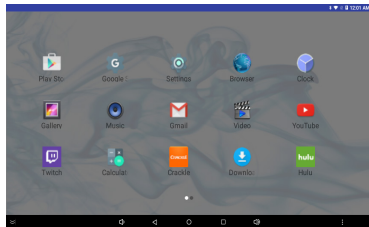All apps can be found and accessed under "Apps" from the Main Menu.

Open an app:
- Select the "Apps" icon (Fig. 2.10).
- The application will open allowing you to select an app you would like to open (Fig. 2.11).

Fig. 2.10

Fig. 2.11

Smartphone Mirroring

The P4X Android employs a "HappyCast" smartphone mirroring system that is compatible with both Apple Airplay as well as Android systems.
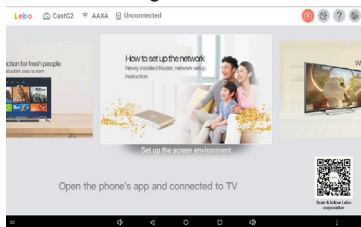
Mirroring with an iPhone or Apple Device:
- Select the "Mirroring" icon (Fig. 2.12).
- The application will open allowing you to activate Airplay on your iPhone or Apple device (Fig. 2.13).

Fig. 2.12

Fig. 2.13

iPhone Smartphone Mirroring

Turning on Airplay
- Swipe up on your iPhone and to access the Airplay option as shown above

- Select Airplay and turn it on, it will show you the Happy Cast connection. Select it and make sure the mirroring is switched on

Projector
- You should already have the Happy Cast App opened on the projector and it will mirror the Apple device
- Adjust the settings in the App if necessary

* Both Projector and Apple devices should use the same WiFi connection.

Android Smartphone Mirroring
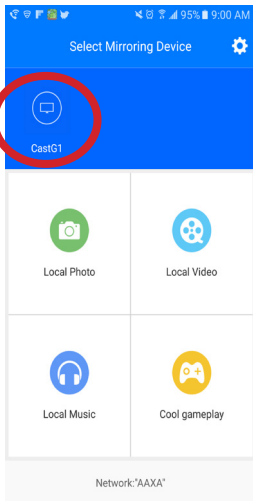
Downloading HappyCast App
- Please vist this URL: http://www.aaxat-ech.com/happycast.apk on your Android phone to download Happy Cast.
- After finishing installing on the phone please open the Happy Cast App and connect to the projector's Happy Cast connection.

Projector
- You should already have the Happy Cast App open on the projector and it will mirror the Android phone.
- Adjust the settings in the app if neces-sary.

* Both Projector and Android smartphone should use the same WiFi connection.

Settings Menu　**Chapter 3**

The Settings Menu can be accessed by selecting "Settings" on the Main Menu

Within the Settings Menu, there are eight submenus that allow you to customize your P4X Android.

- •**Application Manager**
- •**Network Settings**
- •**Bluetooth Settings**
- •**System Settings**
- •**Backup & Reset**
- •**Projector Settings**
- •**About**
- •**Language Settings**

Application Manager

Application Settings

• The Application Manager allows the management of onboard applications. The primary purpose of the Application Manager is to reset or remove existing apps

1. Clearing the App Data/Cache – Clearing the App cache is sometimes necessary to remove corrupted information and reset old logins
2. Force Stop – If an application is misbehaving use this function to stop the application
3. Uninstall – Use this function to uninstall unwanted applications
4. Move to SD Card – This feature is disabled and unsupported
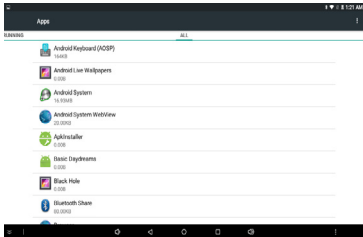
App Manager Menu
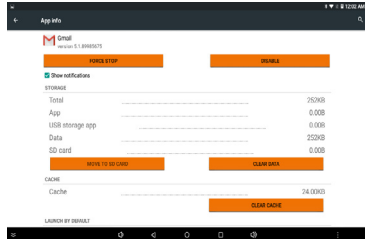
Gmail

Network Settings

**Network Settings**
- Please see Connecting to WiFi section on Page 6
- Click the **3 vertical points** on the top-right corner and choose from **"Add network," "Saved network," "Refresh," and "Advanced"** to adjust WiFi settings

   **Within "Advanced"**
    - **Network Notification**- Choose whether to notify when a public internet is available
    - **Scanning always available** - Choose whether to scan for networks all the time
    - **Keep WiFi on during sleep** - Selection from "Always", "Only when plugged in", "Never", and "WiFi intelligent sleep"
    - **WiFi Direct**- This feature has been disabled

Network Settings
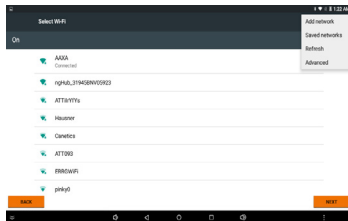
Bluetooth Settings

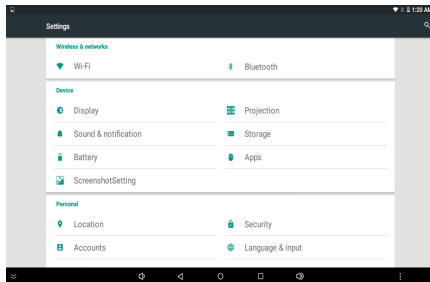**Bluetooth Settings**

- For Bluetooth Connectivity please see the Bluetooth (BT) page (Page 31)
- **Bluetooth** Enable On/Off
- After clicking the **3 vertical points** on the top-right corner, there are three functions that can be chosen: **"Refresh," "Rename the device," and "Show received files"**
- The projector is visible to nearby devices while Bluetooth settings are open
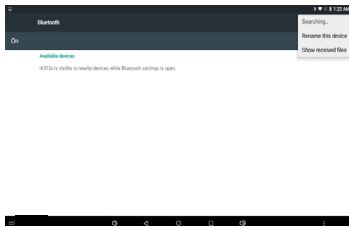
Bluetooth Settings

System Settings

All settings can be found through System Settings

- **Wireless & Networks -** WiFi and Bluetooth
- **Device -** Display, Projection, Sound & Notification, Storage, Battery, Apps, and Screenshot Setting
- **Personal -** Location, Security, Accounts, Language & Input, and Backup & Reset
- **System -** Date & Time, Accessibility, and About Device

Backup & Reset

Back Up My Data
- Back up app data, WiFi passwords, and other settings to Google servers.

Backup Account
- Set a backup account to backup the data.

Automatic Restore
- Use this function to allow the automatic restore when reinstalling an app.

Factory Data Reset
- Erase all data on the device.
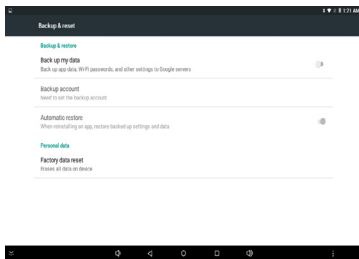
Backup & Reset

Projector Settings
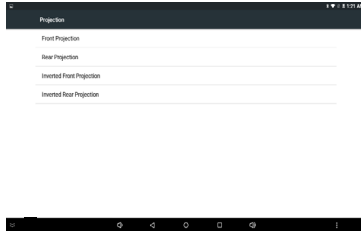
- **Projection** – It allows the selection of different viewing orientations as a result among front projection, rear projection, inverted front projection and inverted rear projection.

About

The "About" displays the basic information of the projector which includes:

- Status
- Legal Information
- Regulatory Information
- Model Number
- Android Version
- Android Security Patch Level
- Baseband Version
- Kernel Version
- Build Number

About
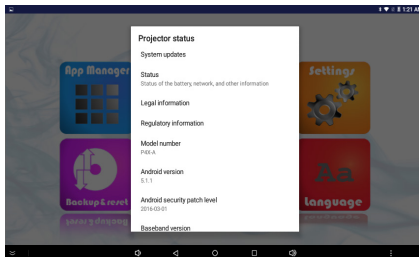
Language Settings

Language Settings

- **Selecting a Language**: The projector supports more than 30 languages
- **Keyboard & Input Method:** The input method is a standard AOSP English keyboard
- **Physical Keyboard**: CHESEN PS2 to USB Converter
- **Trackpad:** Pointer speed is adjustable

Language Settings

Technical Details   Chapter 4
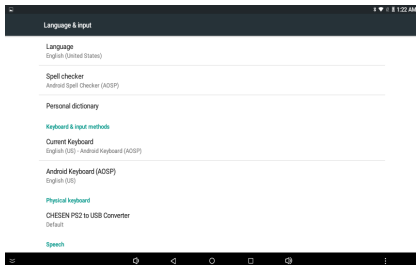
Troubleshooting

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 even plane with the screen

NO SYNC, NO SIGNAL

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 P4X Android 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 P4X Android projector is 854x480 (WVGA). Depending on the video driver different resolutions may need to be selected for proper output

Technical Details Cont.

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 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 pressed 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 codec are supported. Verify that the file was encoded properly

Specifications

Brightness:	175 Lumens
Max Resolution:	1920x1080 (Full HD)
Native Resolution:	854x480 (WXGA)
Contrast Ratio:	2000:1
Noise:	<30 dBs
Aspect Ratio:	16:9
Projection Angle:	33.4°
Projection Lens:	Manual Focus
Image Size:	10~120 inches
Lamp:	Triple RGB LEDs with Vibrant Color Technology Life 20,000hrs
Video in:	Composite A/V (3.5mm Jack) VGA (mini-VGA) HDMI (mini-HDMI)
Audio Out:	3.5 mm audio jack
SD Card:	MicroSD Card Slot (32GB maximum)
USB:	5 Pin Mini USB 2.0 (32GB maximum)
Dimensions:	5.5" x 2.8" x 1.2"
Weight:	0.4lbs
Power Consumption:	14.5 W
Battery Life:	90 Minute Li-Ion Rechargeable Battery
Supported File Formats:	MP3, WMA, OGG, WAV, AVI, BMP, JPG,TXT, GIF, XLS, PPT, DOC, PDF
Conformances:	CE, FCC Class A
Android Operating System:	5.1 Lollipop
Processor:	Quad-Core ARM Cortex 1.3 ghz
RAM:	1GB
Onboard Storage:	8GB
WiFi:	802.11 b/g/n
Bluetooth:	2.0

Notes

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Please direct all customer service inquiries to:

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(714) 957-1999

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