



P2A



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.



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P2-A at a Glance

Chapter 1

Main Unit Front/Back

TF Card Slot



Touchpad

Digital Input
Power Button

Power Port

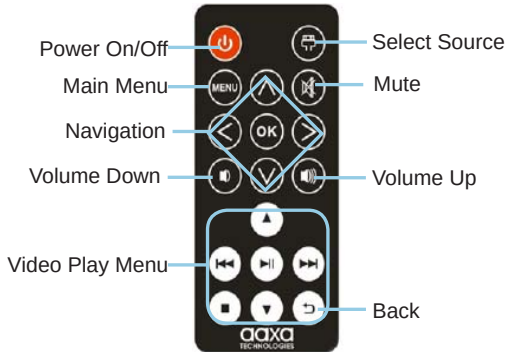
Focus Adjustment

USB Port
Headphone Out

AV Port



Remote & Touchpad



Remote

** P2-A 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 & Touchpad Cont.



The P2-A 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.

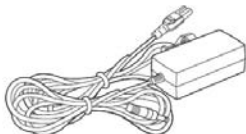
Accessories



Tripod



Remote



Power Adapter



A/V Cable

**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 P2-A needs to be plugged in and charged for four hours before operation.

Powering ON the projector

1. Connect the power cord to the P2-A.
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.

Connecting to WiFi FAQ

Connecting to WiFi:

P2-A 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

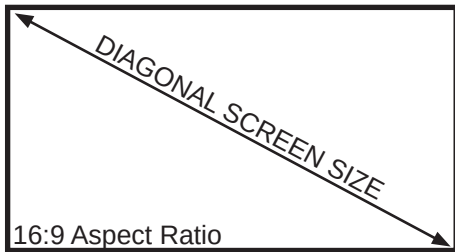
Focus Adjustment

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



Throw Distance Chart

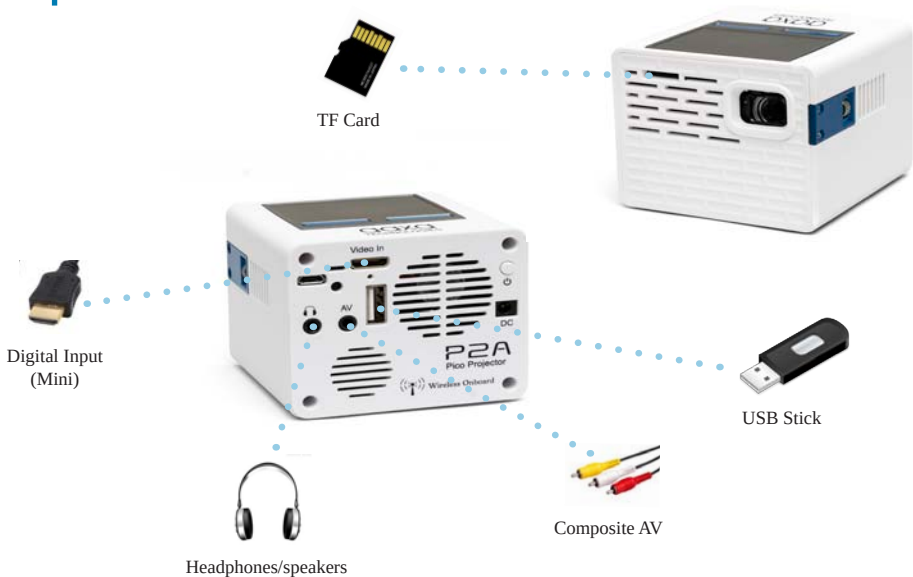
Throw Distance	Diagonal Size
Unit: Inches	Unit: Inches
20	19
30	29
40	38
50	48
60	57
70	67
80	76
90	86



Throw Ratio 1.2

*minimum throw distance: 8 inches

External Inputs and Outputs



Navigating the Main Menu

Main Menu

The Main Menu allows access to all the features of the P2-A.



Main Menu Features

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

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 P2-A can read files directly from both a TF Card and USB Drive.

Supported file types include:
MP3 / WMA / OGG / WAV
AVI / JPG / GIF/ BMP
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 the USB port.
- 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 TF Card

- Slide in your TF card into the TF card slot on the side of the P2-A (as shown in picture).
- Gently slide the TF card until it clicks into place.



(up to 32 GB)

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

Loading External Content Cont.

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

Videos Menu

- Video can be played by clicking “Video” on the Main Menu.

Photos Menu

- Photo can be shown by clicking “Photos” on the Main Menu.

Office Menu

- .pdf, .docx, .xls, .ppt, .txt can be shown by clicking “Office” on the Main Menu.

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

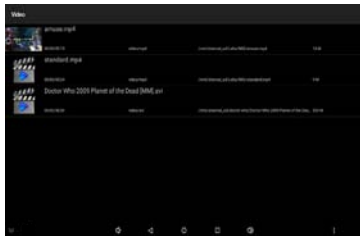


Fig. 2.7

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.

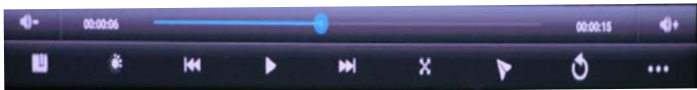
OK

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

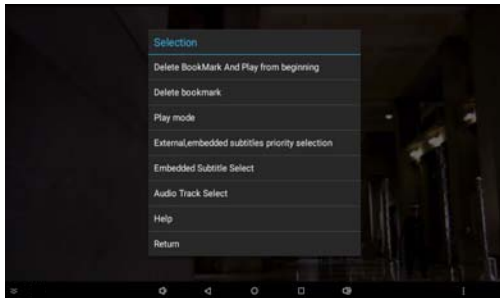
- i. Insert bookmark - allows to start the video from the bookmark inserted
- ii. Adjust brightness
- iii. Next / Previous Video – Play the next / previous video
- iv. Play / Pause
- v. Full Screen
- vi. Go Back
- vii. More



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?

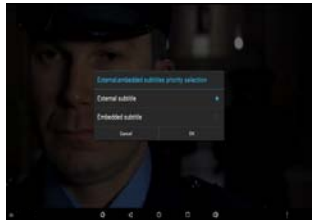
1. On the “Submenu,” click the 3-horizontal points to access more functions.
2. Click “Play Mode” and select from “Single,” “Repeat One,” “Repeat All.”
3. To repeat a specific video, select “Repeat One.”
4. To repeat all video, select “Repeat All.”
5. To stop loop, select “Single.”



Play Mode Menu

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 separate subtitle file, click “External, embedded subtitles priority selection” first and choose the external selection.



Subtitle Menu

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

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).

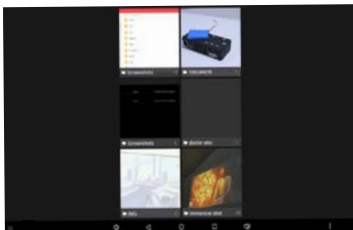


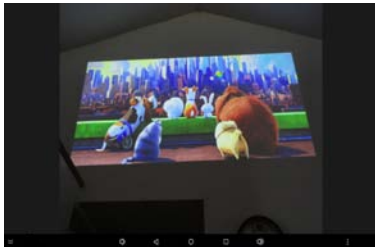
Fig. 2.4



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.



Connecting to a Computer via Digital Input

Step 1:

Connect one end of the Digital Input Adapter Cable to your computer's Digital Input port.



Step 2:

Connect the other end of the Digital Input Adapter Cable to your P2-A's mini Digital Input port.



Step 3:

In the Main Menu, select the "Video-In" Icon.



Select the "Video-In" icon

Connecting to a Computer Cont.

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.

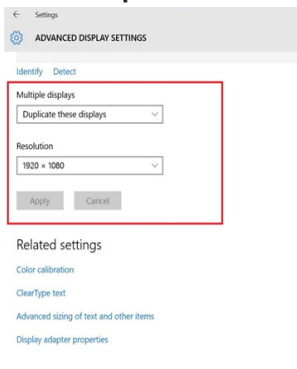
Step 5:



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

**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 854 x 480 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 Digital Input Video Source

In the Main Menu



Select the “Digital Input” Icon

Connectivity to Multimedia Devices

The P2-A 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 P2-A. Check with your phone manufacturer.*

Connecting to Composite Video

Step 1:

Connect the 3.5mm Composite A/V Cable to the side of the P2-A.



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 P2-A.
Check with your phone manufacturer for details.*

Browser

Browser

- To access the website, select “Browser” from the Main Menu.
- Put the address you would like to access by using the touchpad



Main Menu Screen

Streaming Applications

Streaming Application

- To access the Streaming Application, select “Streaming” from the Main Menu.
- The P2-A 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 reconnect 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.

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 P2-A 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

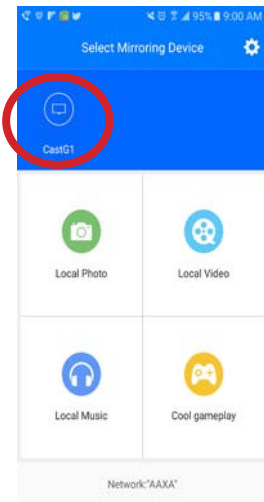
- Swipe up on your iPhone and to access the Airplay option as shown above
- Select Airplay and turn it on, it will show you the Happy Cast connection. Select it and make sure the mirroring is switched on

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 visit 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

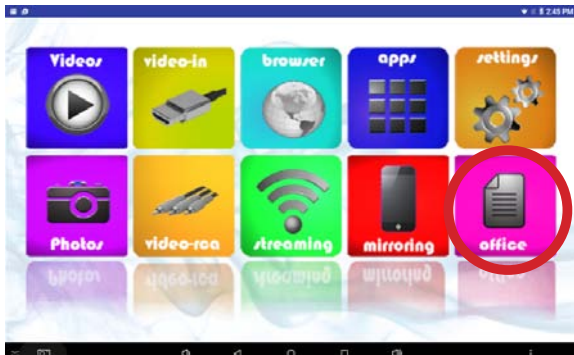
- You should already have the Happy Cast App open on the projector and it will mirror the Android phone.
- Adjust the settings in the app if necessary.

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

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.

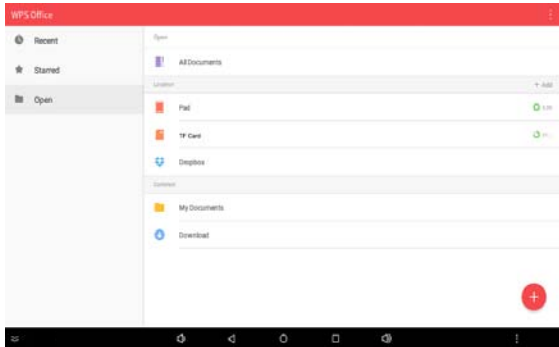


Main Menu Screen

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

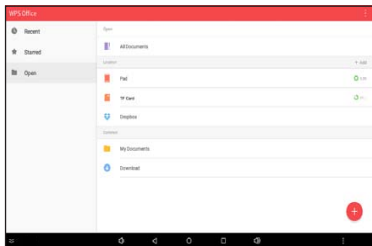
Office Viewer Application

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

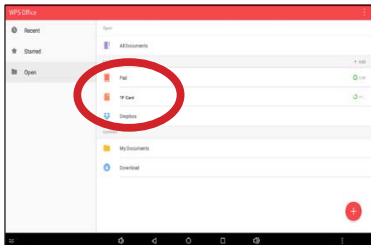
Some file versions may not be compatible and file names must be alphanumeric only.

Viewing Office Documents Cont.

Step 1:
Open "Office"



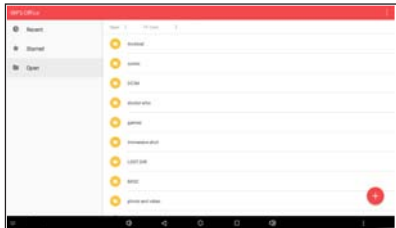
Step 2:
Select Source



Viewing Productivity Documents Cont.

Step 3:

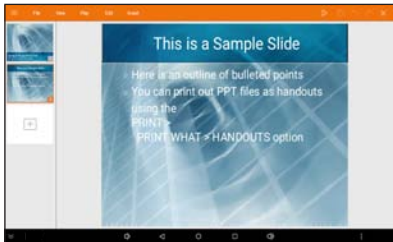
Highlight the Office File and click “OK”



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

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 P2-A.

- 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 TF 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



Bluetooth Settings

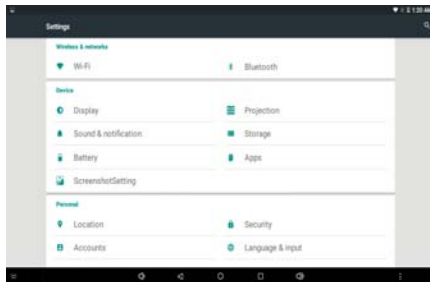
Bluetooth Settings

- 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

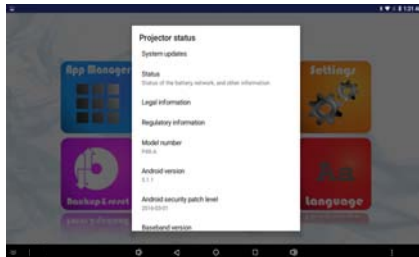


- **Brightness** – It allows the selection of different brightnesses as a result among front Standard, Eco, Bright.
- **Colortemp** – It allows the selection of different color temperatures as a result among Warm, Standard, Cold.
- **Projection** – It allows the selection of different viewing orientations 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

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 P2-A 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 P2-A 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:	130 Lumens
Max Resolution:	1920x1080 (1080P)
Native Resolution:	854x480 (WXGA)
Contrast Ratio:	1000:1
Aspect Ratio:	16:9
Projection Lens:	Manual Focus
Image Size:	8~100 inches
Lamp:	Triple RGB LEDs with Vibrant Color Technology Life 20,000hrs
Video in:	Composite A/V (3.5mm Jack) Digital Input (Mini) (compatible)
Audio Out:	3.5 mm audio jack
Color:	White / Gray (special order only)
TF Card:	TF Card Slot (32GB maximum)
USB:	Full Size USB 2.0 (32GB maximum)
Dimensions:	2.8" x 2.8" x 2.3"
Weight:	8.8oz
Power Consumption:	11 W
Battery Life:	150 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:	5.1.1 Lollipop
Processor:	Quad-Core ARM Cortex 1.3 ghz
RAM:	1GB
Onboard Storage:	8GB
WiFi:	802.11 b/g/n
Bluetooth:	2.0

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: 2ANH2-P2A



Notes

Please direct all customer service inquiries to:

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