

# Pico Projector

**MPP-14001**

FCC ID:2ACX4MPP14001



## User Manual

## **Overview**

### **Dear Customer**

Thank you for purchasing our Pico Projector. This product is a compact pico projector and the best solution for business. The used DLP chip, known for great cinema projectors, provides rich colors and high contrasts with up to 80 Lumen brightness. Versatile connection options like HDMI-in, AV-in, USB or Micro-SD card slot makes the product to the universal projection machine. Use it in office, at home or on the road, share your life, your ideas and your passion without compromises in quality or brightness. We hope you enjoy your device and its many functions!

### **General Safety Information**





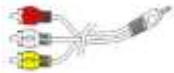

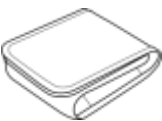

1. Keep the device and packaging materials out of the reach of infants and children.
2. Avoid subjecting the power adapter and other contacts to dripping or splashing water and dry your hands before you use it. Do not place objects filled with liquids such as vases, etc. on or near the device.
3. Make sure that the used power outlet is always readily available and never hidden. In case of emergency, use the power adapter to separate the device from the power network.
4. Keep your device away from all flames such as candles and do not set them up in the vicinity of the device.
5. Keep the unit at least 10 cm away from other objects. Make sure the ventilation is not covered by newspapers, tablecloths, curtains, etc.
6. For your own safety, do not use the projector during thunderstorms or lightning.
7. The battery is integrated with the device. Do not disassemble and modify. The battery should be replaced by an authorized service center only.
8. Ensure that the ambient room temperature is within -10-50°C.
9. During the operation, this product may heat lightly, which is normal.
10. Wait before using if the device has been moved from a cold location into a warm one. Any condensation that has formed may in certain circumstances destroy the device. As soon as the device has reached room temperature it can be used without risk.
11. Handle the product with care. Avoid contact with sharp objects. Keep device away from metallic objects.

12. Place the projector on a flat surface. Any collision or falling to the ground is likely to damage the product.
13. Do not drop or disassemble the product otherwise the warranty voids. Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to an authorized service center.
14. Use only the accessories supplied by the manufacturer.
15. Both product and user's manual are subject to further improvement or supplement without further notice.
16. Avoid facing directly into the projector's lens.
17. The device should not be used in a very dusty environment. Dust particles and other foreign Objects may damage the unit.
18. Do not expose the device to extreme vibrations. It may damage the internal components.
19. Use the enclosed power adapter (see Technical Data).  
Check whether the mains voltage of the power supply matches the mains voltage available at the setup location. The equipment complies with the voltage type specified on the unit.



## **Package Contents**

Please check if the following items are located in your packaging:

|   |   |   |
|---|---|---|
|  |  |  |
| Mini Projector  | AC Adapter  | Remote Controller   |
|  |  |  |
| USB Cable   | Composite AV Cable  | HDMI Cable (A to C)   |
|  |  |   |
| Pouch   | QSG & User Manual   |   |

You are cautioned that any change or modifications to the equipment not expressly approved by the party responsible for compliance could void your authority to operate such equipment.



If the time arises to throw away your product, please recycle all the components possible.

Batteries and rechargeable batteries are not to be disposed in your domestic waste!

Please recycle them at your local recycling point.

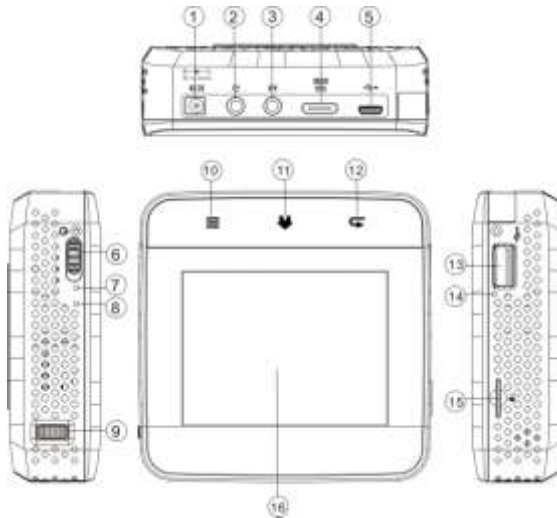
Together we can help to protect the environment.

## **Contents**

|   |    |
|---|----|
| Devices Overview .....                                | 5  |
| Getting Started .....                                 | 7  |
| Charging the Product .....                            | 7  |
| Projecting from External Source .....                 | 7  |
| Connecting USB Device .....                           | 9  |
| Connecting your PC (Used as USB Storage Device) ..... | 9  |
| Using Headphone .....                                 | 10 |
| Power Bank Function .....                             | 11 |
| Functions and Operations.....                         | 12 |
| Main Menu .....                                       | 12 |
| Videos.....   | 12 |
| Pictures.....   | 13 |
| Music .....   | 13 |
| Source.....   | 14 |
| Browser .....   | 15 |
| Settings.....   | 15 |
| Notice for Long-time Projection .....                 | 19 |
| Specifications .....                                  | 20 |

## Devices Overview

### Projector



1. DC IN Jack
2. Headphone Jack
3. AV Jack
4. HDMI Jack
5. Micro-USB Jack
6. Power Switch

Under power off mode, slide to turn on power bank mode (the power bank indicator lights) and slide and hold on for about 3s to turn on the

device; under power on mode, slide to enter standby mode and slide again to resume; slide and hold on for about 3s to turn off the device.

7. Battery Status Monitor
8. Reset Button

When the system halts, poke it with tapering things such as toothpick to reset.

9. Focus Wheel

10. Menu Button

11. Home Button

12. Return Button

## Remote Controller



13. USB Jack

14. Power Bank Indicator

15. Micro-SD Card Slot

16. Touchpad

1. Power Button

2. Menu Button

3. Home Button

4. Search Button

5. Navigation Buttons

6. OK Button

7. Previous File Button

8. Return Button

9. Play / Pause Button

10. Next File Button

11. Volume Adjustment Button

## Warning:

Improper use of the battery may cause overheating, explosion or ignition, which can result in an injury or a fire. Battery leakage may damage the remote controller. Do not expose the remote controller unit to direct sunlight.

Do not recharge, disassemble, deform or heat the battery.

Do not expose the battery to fire or water.

Immediately replace the exhausted battery.

Take out battery when the remote is not in use for a long time.

Infrared Receiver

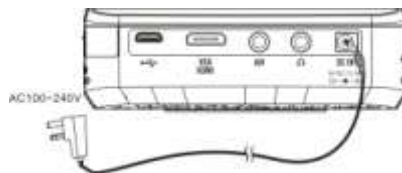


**Note:**

Before the first time you use the remote controller, please take off the colorless plastic piece.

**Getting Started****Charging the Product**

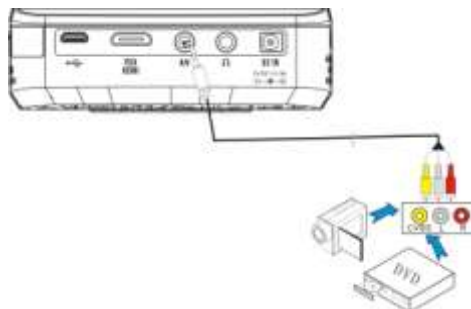
The projector is built in Li-polymer battery for mobile use. Please charge battery of the projector full before its first use.

**Battery Status Monitor**

During charging, the battery charge indicator is red. It turns colorless automatically when the battery is fully charged.

**Projecting from External Source****AV IN**

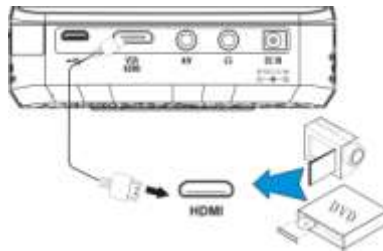
1. Follow the figure below to connect the external AV output device to the AV jack on the rear panel of the unit. Connection is color-coded. After connection, ensure that the corresponding AV signal (e.g.: Composite Video) is enabled.
2. Enter “Source” on main menu and select “AV” mode.





## HDMI

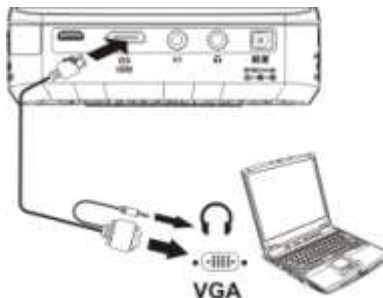
1. Use HDMI cable to connect the mini HDMI port on rear the panel of the projector to the external HDMI signal source. Ensure that the HDMI input signal is enabled.
2. Enter “Source” on main menu and select “HDMI ”mode.



## VGA

Use Mini HDMI to VGA cable (optional) to connect the HDMI port on the rear panel of the projector to PC or other external source.

1. Plug one end of Mini HDMI to VGA Cable into the mini HDMI port on the projector.
2. Plug the other end of the cable into the VGA connector on PC or other external source.
3. Enter “Source” on main menu and select “VGA” mode.

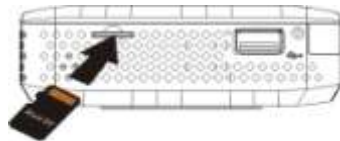


**Note:**

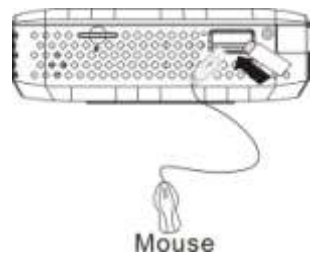
1. Make sure the screen refresh frequency of your computer is 60Hz.
2. Supported screen resolution of PC:
  - 1920 x 1080 / 1600 x 1200 / 1280 x 1024
  - 1280 x 960 / 1280 x 720 / 1152 x 864
  - 1024 x 768 / 800 x 600 / 640 x 480
3. Many laptop computers can not automatically switch to projection mode when the projector is connected. Please refer to your computer manual to make relative settings.

**Connecting micro-SD Card**

A built-in memory card reader is available for reading micro-SD card. Gently insert the card until it reached the bottom of the slot. To remove the memory card, gently push the top edge of the card and pull it out.

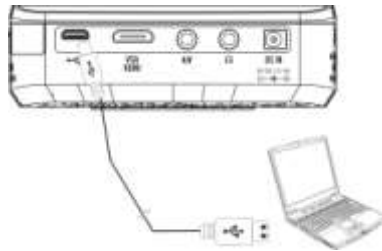
**Connecting USB Device**

Connect USB storage device/mouse/keyboard to the USB port as shown right:

**Connecting your PC (Used as USB Storage Device)**

The projector has internal memory for file storage. Please download media files from your PC to the internal memory for projection:

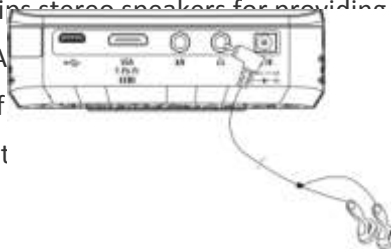
1. Turn on the PC and the projector.
2. Connect the micro-USB port of the mini projector to PC via the USB cable. A prompt information will appear on the projector to remind you to turn on USB storage, select and press OK to turn on it. Now the projector is in mass storage mode. You can copy pictures, videos, and music from your PC to the internal memory or delete the files on the internal memory.



**Note:** Please switch off USB debugging in Developer options of **Setting** menu before connecting to PC.

### Using Headphone

The projector equips stereo speakers for providing the best audio performance. A headphone jack of the projector is provided. When headphones are connected to the headphone jack of the projector, the speakers will automatically turn off.



### **Note: Avoid Hearing Damage**

Listening at high volume for a long period of time could

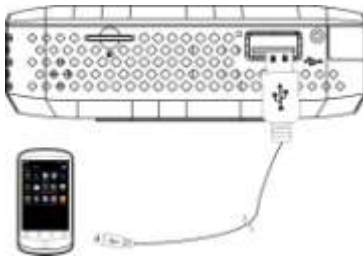


cause damage to your ears.

### **Power Bank Function**

The projector can be used as a power bank for your mobile phone charging.

1. When projector is off, you can slide the power switch to turn on/off power bank function.
2. When projector is on, select Power Bank on the main menu and activate it, the screen will popup an asking window, select OK to go to the power bank mode.



**Note:** USB port output is 5V, 1A (max.).

## Functions and Operations

### Main Menu



Press ▲▼◀▶ to select the desired item and press **OK** to enter the submenu; press ↶ to return to Main Menu.

**Note: Before Video/Picture/Music playback, please store available files into the flash memory or insert micro-SD card/connect USB device with available files in firstly.**

### Videos



Select and play video files.

1. On the video menu, press ▼ to enter file selection mode and press ▲▼ ◀▶ to navigate the file. Press **OK** to start playback of the selected video. Tap the icon 🎬 in left top corner of the screen for more video settings
2. During playback, press ⏮ ⏭ to play the previous/next video.
3. Press ⏸ to pause and press it again to resume.
4. Press 🔊/🔇 on remote controller to adjust the volume.

**Note:** The Projector supports the following video formats:

MJPEG, MPEG-1/2, MPEG-4, H.263, H.264.

## Pictures



Select and play images.

1. The pictures are shown as thumbnail. Press ▲▼ ◀▶ to navigate the image and press **OK** to play.
2. During picture playback, press ◀ ▶ to select the previous/next picture; tap the touchpad or press **OK** to popup function key menu and user can select 🎞 to choose “slideshow” to playback the images in slideshow mode.




**Note:** The projector supports the following Picture formats:

JPEG, BMP, PNG, GIF

## Music



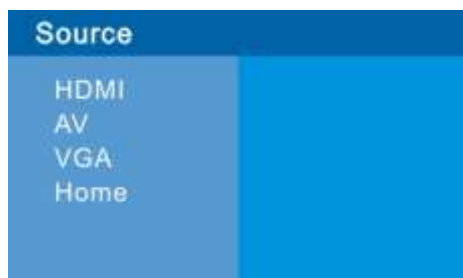
Select and play music.

1. On the music menu, press ▲▼◀▶ to select and press **OK** to start the music playback. Tap the icon  in top left corner of the screen for more music settings.
2. Press ◀/▶ to adjust the volume and press the  to mute.
3. During playback, press ◀▶ to play the previous/next song. Press  to pause the music and press it again to resume normal playback.

**Note:** The projector supports the following music formats:

MP3, WAV, WMA, AAC

## Source



When projecting from external AV source (HDMI, AV or VGA), enter “Source” on main menu to select the exact input connection.

**Note:** If the blue screen appears and shows “No Signal” after the projector connecting with the external AV source, please follow the instructions above to select the correct source or check whether the cables work well.

## Browser

On the main menu, press ▲▼◀▶ to select Browser and press OK to open it and surf on Internet.



Press ⏮ to return to Main Menu.

## Settings



### Wi-Fi

1. On the settings menu, select “Wi-Fi”, press ▶ to enter WiFi setting and press OK to turn on WiFi.



2. A moment later, it will come up some available networks. Choose one



and enter the password, click **Connect** to finish. (The operation is the same as that of Android smart phone)



## Bluetooth

**Note:** before using this function, connect your projector with a mouse so that you can use the function conveniently.

1. On the settings menu, select Bluetooth, press ► to enter Bluetooth setting and press OK to turn on Bluetooth.
2. Turn on the Bluetooth function of the device you want to connect.



3. Pair your device with projector, after that, you can transfer your file to projector.



4. Your projector screen will show a pairing request as below, then tap the "Pair".



5. Transfer the files in your device, the bottom of the projector screen will come up a tip, and disappear very quickly. Don't worry about it.
6. Just drag down the task bar in the top left corner of the screen by using a mouse, the screen will come up a window, tap to open and then click **Accept** to begin receiving the incoming file sent by Bluetooth.



7. After transfer finished, you can find the files in **Pictures/Videos/**

**Music** of main menu screen.

### Display

Press ▲▼ to select **Display** and then press OK and ► to enter submenu.

### Power Save

Activate the function to save power.

### Projector Mode

Press ▲▼ to select projection mode.

### Language & Input

Press ▲▼ to select **Language & Input** and then press OK and ► to enter submenu to set language and keyboard and input method, etc.

### USB Debugging Function

Use USB cable to connect projector to PC.

Press ▲▼ to select **Developer options**, and then press OK and ► to enter the submenu on the right, press ▲▼ to select **USB debugging** and then press OK to switch on USB debugging mode, now you can download or update software of projector from PC.



### Backup & reset

Press ▲▼ to choose **Backup & reset** and press OK and ► to enter submenu. Press ▲▼ to choose **Factory data reset** and press OK to enter. Use direction buttons to select “Reset device” and “Erase everything”, press OK, then the device will be back to default setting.


### About device

Detailed information about the projector.

### Notice for Long-time Projection

The built-in battery supports about **2hrs** projection. For long time projection, you are recommended to use AC adapter. If it is low battery without charging, the projector will shut down automatically.

When the battery is too low to stay in operation, the low battery icon will flash and it will popup a battery indication. Under this condition, you need to charge the projector.

It's normal that the projector gets warm with continuous work due to its high performance. If the projector runs for a long time and is over-heated, the High-Temperature icon  will appear on the screen. The system will shut down automatically.

## Specifications

| Item                           | Description   |
|--------------------------------|---|
| <b>Optical Technology</b>      | WVGA 0.3" DLP   |
| <b>Light Source</b>            | RGB LED   |
| <b>LED Lifetime</b>            | Min. 20,000 hours   |
| <b>Contrast</b>                | 1000:1  |
| <b>Resolution</b>              | 854 x 480 Pixels (WVGA)   |
| <b>Aspect Ratio</b>            | 16:9 (4:3 compatible)   |
| <b>Projection Image Size</b>   | 50 cm ~ 600 cm (14 " ~ 120 ")   |
| <b>Projection Distance</b>     | 50 cm ~ 300 cm (14 " ~ 85 ")  |
| <b>Brightness</b>              | <b>AC Mode:</b> Up to ANSI 80 Lumens<br><b>Battery Mode:</b> Up to ANSI 50 Lumens |
| <b>Focus</b>                   | Manual  |
| <b>Lens Offset</b>             | 100%  |
| <b>Internal Memory</b>         | 4 GB  |
| <b>Internal Speaker</b>        | Mono  |
| <b>USB</b>                     | Micro USB; USB  |
| <b>AV source</b>               | AV in (3.5 mm mini jack, PAL & NTSC), Mini HDMI                                   |
| <b>Audio-out</b>               | 3.5 mm mini jack  |
| <b>Card slot</b>               | Micro-SD card up to 64 GB   |
| <b>Cooling</b>                 | Active  |
| <b>Battery Type</b>            | Embedded 4000 mAh, 3.7 V , Li-polymer rechargeable battery                        |
| <b>Battery Lifetime</b>        | ≧ 120 min (ECO mode )   |
| <b>Power Consumption</b>       | ≧ 15W   |
| <b>Dimensions( L x W x H )</b> | 93 mm x 93 mm x 31 mm   |
| <b>Weight</b>                  | About 270 g   |

## **FCC statement**

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 that is received, including any interference that may cause undesired operation.

\*RF warning for Portable device: The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This device is acting as slave and operating in the 2.4 GHz (2412 ~2462 MHz) band.

Ad Hoc function is supported but not able to operate on non-US frequencies. Do not use the device with the environment which below minimum -10 °C or maximum over 50°C .

**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

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