

User Manual



Register your product and get support at
www.philips.com/welcome



Table of Contents

Overview	3
Welcome.....	3
About this User Manual.....	3
1 General Safety Information	4
Setting Up the Device	4
Repairs.....	4
Power Supply	4
2 Overview	6
Top of the Device.....	6
Side View	6
Bottom of the Device.....	6
Remote Control	7
Overview of the Menu Functions.....	8
3 Initial Operation.....	9
Setting up the Device.....	9
Connecting Power Supply / Charging Battery	9
Initial Installation	9
Installing or Changing the Batteries of the Remote Control.....	10
Using the Remote Control.....	11
4 Connect to the Playback Device	12
Connecting to Devices with HDMI Output	12
Connecting to a Computer (VGA)	12
Connecting Using Audio/ Video (CVBS) Adaptor Cable	13
Connecting Using Component-Video (YPbPr/ YUV) Cable.....	13
Connecting the Headphones	14
5 Memory Card / USB Storage Medium..	15
Inserting a Memory Card.....	15
Connecting USB Storage Medium	15
6 WiFi Display – Miracast.....	16
7 ScreenPlay	17
8 Media Playback	18
Video Playback.....	18
Photo Playback.....	19
Music Playback	20
Managing Files	20
9 Settings.....	24
10 Service	26
Care Instructions for the Battery	26
Battery Deep Discharge.....	26
Cleaning.....	27
Device Overheated	27
Troubleshooting.....	28
11 Appendix.....	30
Technical Data.....	30
Accessories.....	30
Open Source Software	30

Overview

Welcome

Dear valued customer, thank you for your great decision to purchase this PicoPix pocket projector. We hope you have as much fun using it as we did creating it!

About this User Manual

With the installation guide on the following pages, you can start using your device quickly and easily.

Read the entire user manual carefully. Follow all safety instructions in order to ensure proper operation of your device. The manufacturer accepts no liability if these instructions are not followed.

Symbols Used

Note



Troubleshooting

This symbol designates tips that will help you to use your device more effectively and easily.

CAUTION!



Damage to the Device or Loss of Data!

This symbol gives warning of damage to the device and possible loss of data. These damages can result from improper handling.

DANGER!



Danger to Persons!

This symbol gives warning of danger to persons. Physical injury or damage can result from improper handling.

1 General Safety Information

Do not make any changes or settings that are not described in this user manual. Physical injury or damage to the device or loss of data can result from improper handling. Take note of all warning and safety notes indicated.

Setting Up the Device

The device is exclusively for indoor use. The device should be placed securely on a stable, flat surface. Position all cables in such a way that no one will stumble on them, thus avoiding possible injuries to persons or damage to the device itself.

Do not plug in the device in moist rooms. Never touch the mains cable or the mains connection with wet hands.

The device must have sufficient ventilation and may not be covered. Do not put your device in closed cabinets or boxes.

Do not place the machine on soft surfaces such as tablecloths or carpets and do not cover the ventilation slits. Otherwise the device could overheat or catch fire.

Protect the device against direct sunlight, heat, large temperature fluctuations and moisture. Do not place the device in the vicinity of heaters or air conditioners. Observe the information on temperature and humidity in the technical data.

When the device is running for a long period of time, the surface becomes hot and a warning symbol appears on the projection. The device switches automatically to stand-by mode when it gets too hot. After the device has cooled down, you can continue playback by pressing any key.

Do not allow liquids to enter into the device. Switch off the device and disconnect it from the mains supply if liquids or foreign substances end up inside the device. Have the unit inspected by a technical service department.

Always handle the unit with care. Avoid touching the lens. Never place heavy or sharp objects on the projector or the power cable.

If the projector gets too hot or emits smoke, shut it down immediately and unplug the power cable. Have your device examined by trained professionals at a technical service location. To prevent the spread of fire, open flames should be kept away from the device.

Under the following conditions, a layer of moisture can appear inside the device which can lead to malfunctions:

- if the device is moved from a cold to a warm area;
- after a cold room is heated;
- when this device is placed in a damp room.

Proceed as follows to avoid any moisture build-up:

- 1 Seal this device in a plastic bag before moving it to another room, in order for it to adapt to room conditions.
- 2 Wait one to two hours before you take the device out of the plastic bag.

The device should not be used in a very dusty environment. Dust particles and other foreign objects may damage the unit.

Do not expose the device to extreme vibrations. It may damage the internal components.

Do not allow children to handle the device without supervision. The packing materials should be kept out of the hands of children.

Repairs

Do not make any repairs to the device yourself. Improper maintenance can result in injuries or damage to the device. Only have your device repaired by an authorised service centre.

Do not remove the type label from your device; this would void the warranty.

Power Supply

Use only the enclosed power adapter (see chapter Appendix / Technical Data). Check whether the mains voltage of the power supply matches the mains voltage available at the setup location. This equipment complies with the voltage type specified on the unit.

The AC main plug of adaptor is used as the power disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.

The capacity of the battery diminishes with time. If the device functions only with the power supply, the battery is defective. Contact an authorised service centre to replace the battery.

Do not try to replace the battery yourself. Incorrect handling of the battery or using the wrong type of battery can cause damage to the device or cause injury.

DANGER!



Risk of Explosion with Incorrect Type of Batteries

Only replace the batteries with the same or comparable batteries.

There is a risk of explosion if the incorrect battery type is used.

Switch the device on or off using the power switch before removing the power supply from the socket.

Turn off the device and remove it from the power supply before cleaning the surface. Use a soft, lint-free cloth. Never use liquid, gaseous or easily flammable cleansers (sprays, abrasives, polishes, alcohol). Do not allow any moisture to reach the interior of the device.

DANGER!



High Power LED

This device is equipped with a high power LED (Light Emitting Diode), which emits very bright light. Do not look directly into the projector lens. This could cause eye irritation or damage.

DANGER!



Danger of Hearing Damage

Do not use the device over a longer time at high volume—especially when using headphones. This could lead to the risks of hearing damage.

2 Overview

Top of the Device

(1)—Focus wheel for image sharpness

Note



Note that the distance to the projection surface must be a minimum of 0.5 meters and a maximum of 5 meters. If the Pocket Projector is located outside of this range, it will not be possible to focus the image. Turn the focus wheel carefully so as to avoid damaging the lens.

(2) ⏮ — Move back in menu, move back one directory level / cancel functions

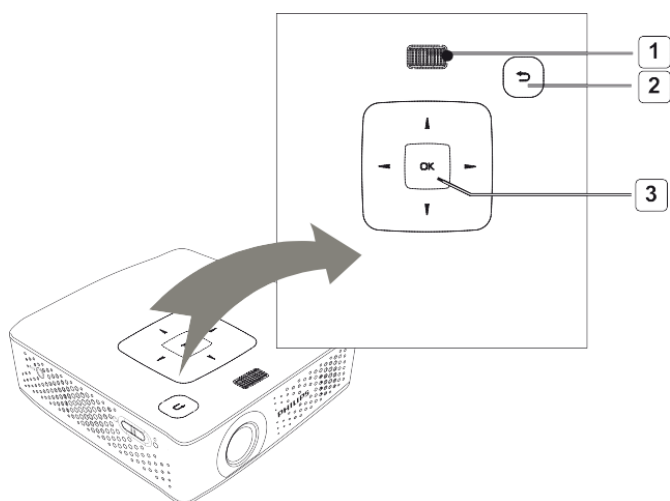
(3)—Navigation key / OK key

⏹ — Confirm entry / start, stop video/music playback or slideshow

⏪/⏩, ⏮/⏭ — Navigation keys / navigation in the menus / modify settings

⏴/⏵ — Modify settings / access quick settings / during music playback: select previous or next title

⏪/⏩ — During video playback back/next, fast forward/backward



Side View

(1) ON/OFF—On/Off switch

(2)—Battery status LED

Red: battery is in charging.

Green: battery stops charging.

Red/Green flash: battery capacity is low, or stops charging because of temperature protection.

(3)—Remote-control signal receiver

(4) 🎧 —Audio output – headphone connection or connection for external speakers

(5) **HDMI/YPbPr/VGA**—Connection for a playback device with an **HDMI/YPbPr/VGA** output via an adapter cable

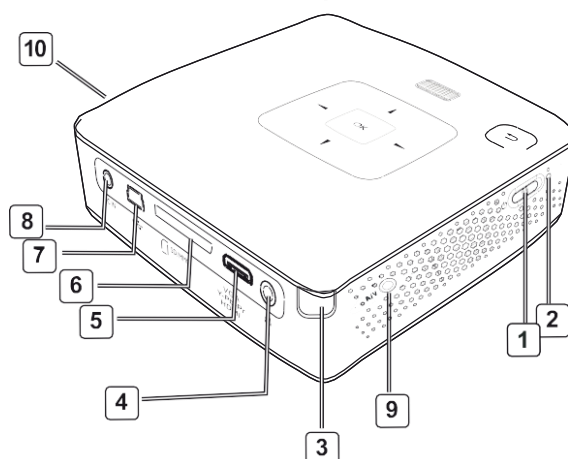
(6) **SD/MMC**—Memory card slot (SD/SDHC/SDXC/MMC)

(7) **Mini USB**—connection for a computer (data exchange)

(8) **DC IN**—Port for power supply

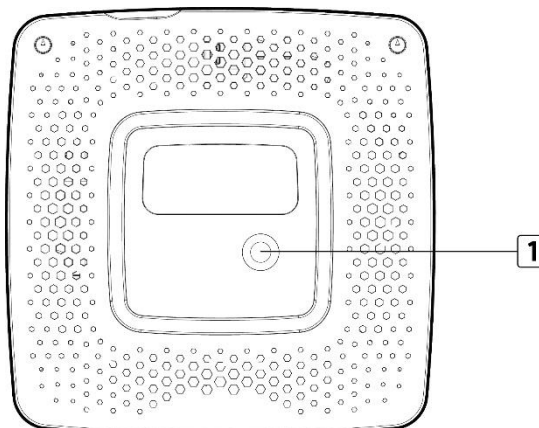
(9) **A/V**—Connection for a playback device with an **A/V (CVBS)** output via an adapter cable

(10) **USB**—Connection for a **USB** storage medium or wireless dongle

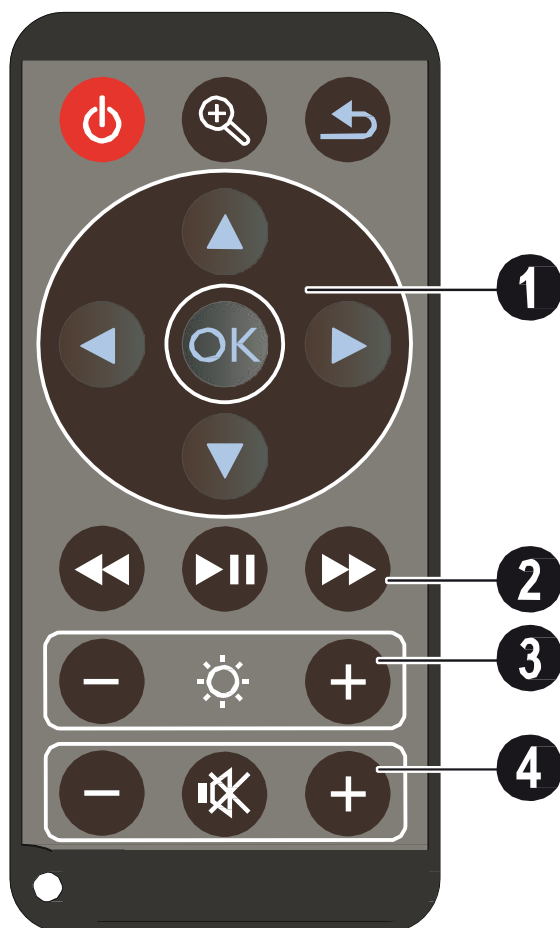


Bottom of the Device

(1) Tripod socket



Remote Control



- ⏻ – Standby / Activate the device
- 🔍 – Magnify still. Pan using the navigation keys (⬆️/⬇️, ⬅️/⬅️)
- ⬅️ – One menu step back, one directory level back / cancelling a function

1 Direction Buttons

- OK – Confirms selection
- ⬆️/⬇️, ⬅️/⬅️ – Navigation keys / navigate the menu/ modify settings
- ⬆️/⬇️ – Modify settings / access quick settings / during music playback: select previous or next title
- ⬅️/⬅️ – During video playback back/next, fast forward/backward

2 Playback Keys

- ⏮️ – During video playback fast backward
- ⏸️ – Start / stop playback
- ⏭️ – During video playback fast forward

3 Brightness Keys

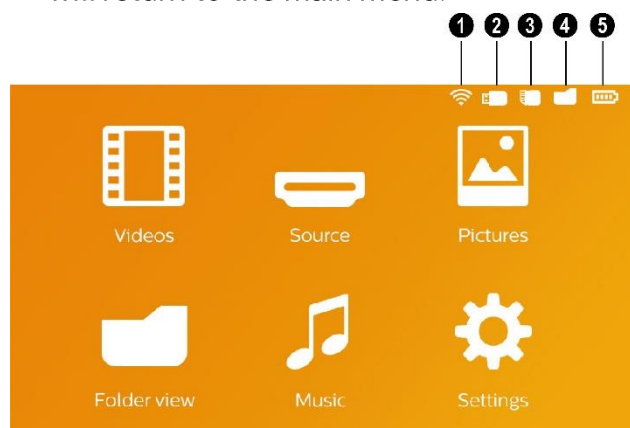
- ⦿ – Decrease / increase the brightness

4 Volume Keys

- ⦿ – Decrease the volume
- 🔇 – Deactivate sound
- ⦿ – Increase the volume

Overview of the Menu Functions

- 1 After switching on the device the main menu appears.
- 2 Select the desired menu using the navigation keys (▲/▼), (◀/▶).
- 3 Confirm with (OK).
- 4 By pressing the (⏮) key several times you will return to the main menu.



Videos—Selecting files for video playback.

Source—Switch to external video input select **HDMI** or **WiFi** Display/ScreenPlay (if wireless dongle is connected).

Pictures—Selecting files for the slideshow.

Folder View—Selecting files for playback. Copy or delete files (mark the files with (▶) and confirm using (OK)).

Music—Selecting music files for playback.

Settings—Configure settings for playback and for the device

Symbols in the top bar of the main menu

The chosen storage appears highlighted in white.

- 1— Wireless icon shows that the wireless dongle is connected
- 2— USB storage medium
- 3— Memory card
- 4— Internal memory
- 5— Charge level of the internal battery. The icon will flash red, when the battery needs to be recharged. If the power supply is connected, no symbol is displayed

3 Initial Operation

Setting up the Device

You can position the device so that it lies flat on a table in front of the projection surface; it is not necessary to tilt it towards the projection surface.

Connecting Power Supply / Charging Battery

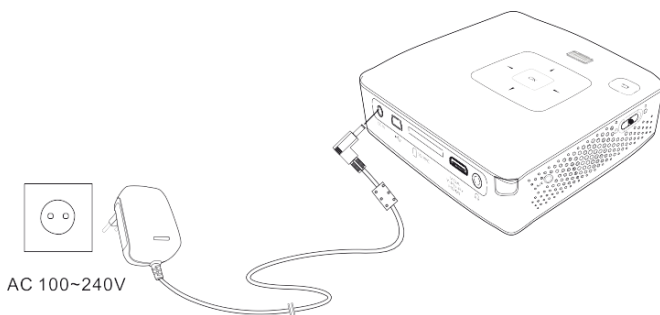
CAUTION!



Mains Voltage at the Site of Installation!

Check whether the mains voltage of the power supply matches the mains voltage available at the setup location.

- 1 Insert the small plug of the power supply into the socket on the rear side of your device.
- 2 Plug the power supply into the mains.
- 3 During the charging process, the indicator light on the side of the device will be red. When the battery is fully charged, it will turn green.
- 4 Charge the built-in battery before using for the first time for at least 3 hours. This will prolong the life of the battery.



Initial Installation

- 1 Switch the device on using the on/off switch on the side.
- 2 Turn the device towards a suitable projection surface or wall. Note that the distance to the projection surface must be a minimum of 0.5 meters and a maximum of 5 meters. Make sure the projector is in a secure position.
- 3 Use the focus wheel on the top to adjust the image sharpness.
- 4 Select the desired menu language using /.
- 5 Confirm with .

Note



The main menu appears instead of the language selection

The device has already been installed. In order to change the menu language, proceed as follows:

- 1 Use the navigation keys to select **Settings**.
- 2 Confirm with .
- 3 Select with / **Language**.
- 4 Confirm with .
- 5 Select the desired language with /.
- 6 Confirm with .
- 7 Exit with .

Installing or Changing the Batteries of the Remote Control

DANGER!



Risk of Explosion with Incorrect Type of Batteries!

Only use the CR 2025 type battery.

There is a risk of explosion if the incorrect battery type is used.

- 1 To access the battery, disengage the locking mechanism (❶) and slide out the battery compartment (❷).



- 2 Insert the new batteries into the battery compartment with the positive and negative poles as shown on the back of the remote control. Make sure the polarities (+ and -) are aligned correctly.



- 3 Push the battery compartment back into the remote control until the locking mechanism engages.



Note



Normally the batteries will last for around one year. If the remote control stops working, please replace the batteries. If the device is not used for a long time, take out the batteries. This will prevent leakage and possible damage to the remote control.

The used batteries should be disposed of according to the recycling regulations of your country.

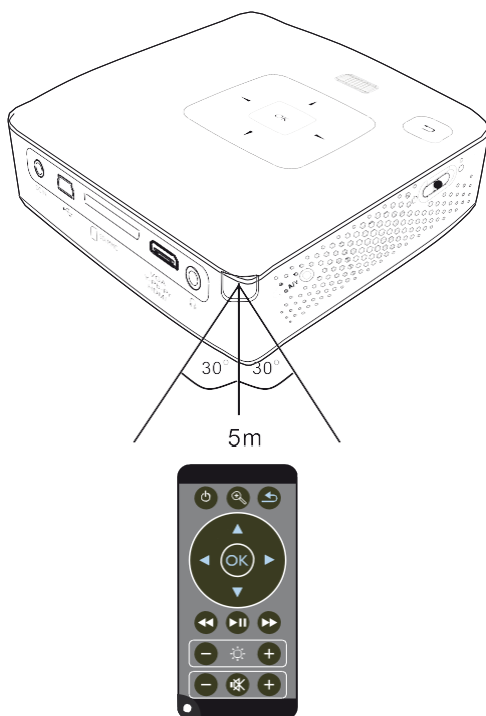
Using the Remote Control

Point the remote control at the remote sensor on the back of the device. The remote can be used within an angle of 60 degrees and up to 5 meters from the device. When using the remote control, no obstacle should be placed between the remote control and remote sensor.

CAUTION!



- The improper use of batteries can lead to overheating, explosion, risk of fire and injury. Leaking batteries can possibly damage the remote control.
- Never expose the remote control to direct sunlight.
- Avoid deforming, dismantling or charging the batteries.
- Avoid exposure to open fire and water.
- Replace empty batteries immediately.
- Remove the battery from the remote control if not in use for long period of time.



4 Connect to the Playback Device

Only use the supplied cable or cables that are available as accessories to connect the projector.

Supplied Cables

HDMI to mini-HDMI Cable

Cables Available as Accessories

Component Video cable

.....(PPA1210/253447083)

VGA cable.....(PPA1250/253447070)

MHL to mini-HDMI cable

.....(PPA1240/253520048)

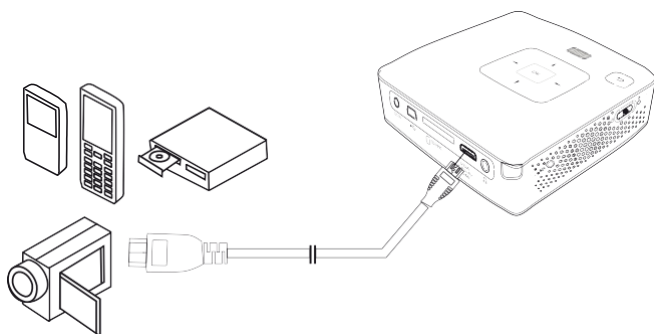
Mini DisplayPort cable .(PPA1270/253520069)

Mini HDMI to micro HDMI cable

.....(PPA1330/253664643)

Connecting to Devices with HDMI Output

Use the HDMI to mini HDMI cable to connect the projector to a computer or laptop.



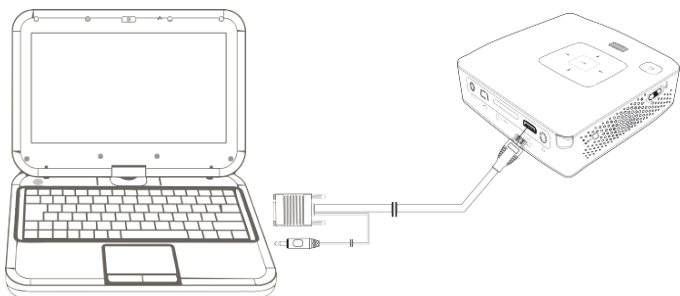
- 1 Switch to *HDMI* in *Menu > Source*
- 2 Connect the HDMI cable to the projector's mini- HDMI socket.
- 3 Connect the cable to the HDMI socket of the playback device.

Connecting to a Computer (VGA)

Note

Many laptops do not activate the external video output automatically when you connect a second display such as a projector. Check your laptop's manual to find out how to activate the external video output.

Use the VGA cable (available as an accessory) to connect the projector to a computer, laptop, or somePDAs. The projector supports the following resolutions: VGA/SVGA/XGA. For best results, set the computer's resolution to SVGA (800 x 600).



- 1 Connect the VGA cable to the projector's mini-HDMI socket.
- 2 Connect the VGA plug to the computer's VGA socket and the audio plug to the computer's audio output.
- 3 Adjust the computer's resolution to the correct setting and switch the VGA signal to an external monitor. The following resolutions are supported:

	Resolution	Image refresh rate
VGA	640 x 480	60 Hz
SVGA	800 x 600	60 Hz
XGA	1024 x 768	60 Hz

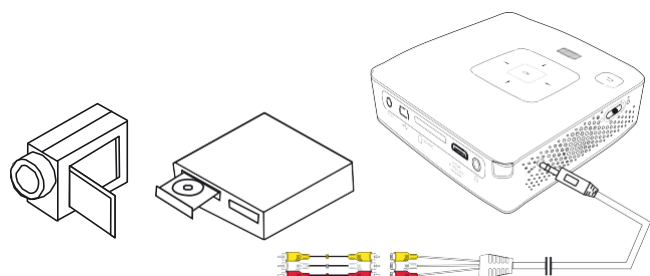
Note

Screen resolution
You can obtain the best results with the 800 x 600 (60 Hz) resolution.

- 4 Select *Menu > Source* and switch to *VGA*.

Connecting Using Audio/Video (CVBS) Adaptor Cable

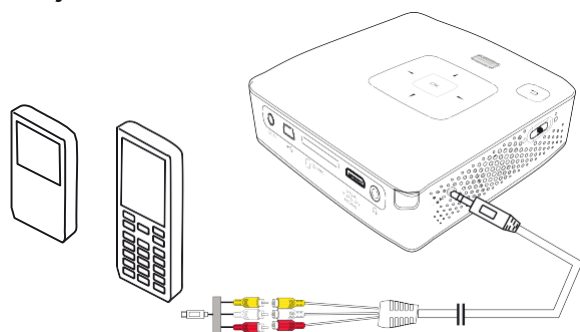
Use the projector's audio/video adaptor cable (A/V cable) to connect camcorders, DVD players or digital cameras. The jacks for these devices are yellow (video), red (audio right) and white (audio left).



- 1 Connect the supplied A/V cable to the projector's A/V socket.
- 2 Connect the video device's audio/video jacks to the A/V cable using a conventional composite video (RCA) cable.
- 3 Select **Menu > Source** and switch to **AV**.

Connecting to Mobile Multimedia Devices

Some video devices (e.g.: pocket multimedia players, ...) require specific connection cables. There are either supplied with the device or acquired from the manufacturer of the multimedia device. Please note that only the original cables from the device manufacturer may function.



Note

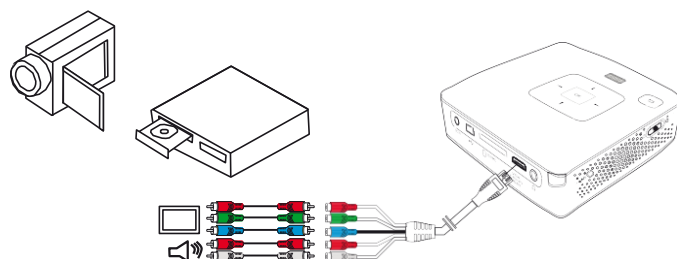


Switching to the Multimedia Device Signal Output

See the multimedia device instruction manual to find out how to switch the signal output to this jack.

Connecting Using Component-Video (YPbPr/ YUV) Cable

Please use this type of connection to obtain the highest possible image quality. This cable is available as an accessory. The device jacks have the colours green (Y), blue (U/Pb), red (V/Pr) for the video signal and red (audio right) and white (audio left) for the audio signal.



- 1 Connect the video component cable (accessory) to the projector's mini-HDMI socket.
- 2 Connect the video device's appropriate coloured sockets to the component video cable of the projector using a conventional component video (RCA) cable.

Note



YCbCr

Note that the YPbPr outlets are labelled YCbCr on some devices.

Note



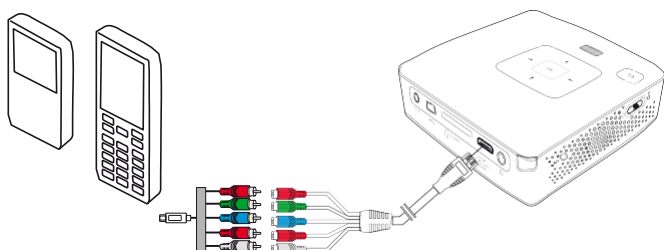
Two Red Phono (RCA) Connectors

When connecting, note that there are two red phono (RCA) connectors on the cable. One is for the right audio signal and the other for the V/Pr element of the component video signal. If these two connectors are inserted incorrectly, the projected image appears green and the audio signal for the right speaker will not work.

- 3 Select **Menu > Source** and switch to **Component**.

Connecting to Mobile Multimedia Devices

Some video devices (e.g.: pocket multimedia players, ...) require specific connection cables. There are either supplied with the device or acquired from the manufacturer of the multimedia device. Please note that only the original cables from the device manufacturer may function.



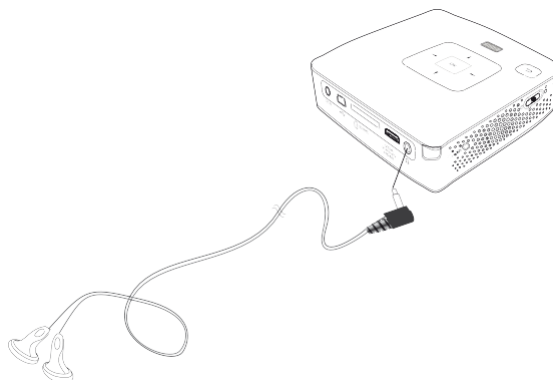
Note

Switching to the Multimedia Device Signal Output

See the multimedia device instruction manual to find out how to switch the signal output to this jack.

Connecting the Headphones

- 1 Before connecting the headphones, turn down the volume on the device.
- 2 Connect the headphones to the projector's headphone slot. The device speakers deactivate automatically when the headphones are connected.



- 3 After connecting the headphones, increase the volume to a comfortable level.

DANGER!

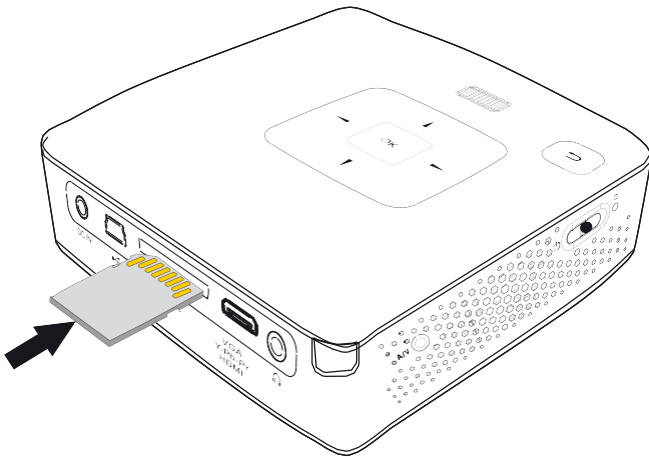


Danger of Hearing Damage

Do not use the device over a longer time at high volume – especially when using headphones. This could lead to the risks of hearing damage. Before connecting the headphones, turn down the volume on the device. After connecting the headphones, increase the volume to a comfortable level.

5 Memory Card / USB Storage Medium

Inserting a Memory Card




- 1 Insert a memory card with the contacts facing upwards into the SD/MMC slot at the back of the device. Your device supports the following memory cards: SD/SDHC/SDXC/MMC.
- 2 Insert the memory card into the slot until it snaps into position.

DANGER!



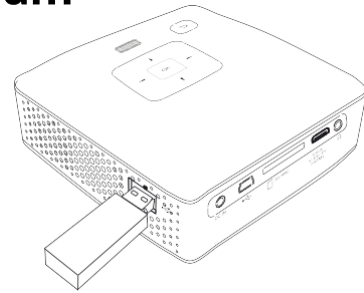
Inserting a Memory Card!

Never pull out the memory card while the device is accessing it. This could cause data to be damaged or lost.

In order to make sure that the device does not access the memory card, press the  key in the main menu until the symbol for the internal memory has been selected.

- 3 Press lightly on the memory card to remove it.
- 4 The memory card is ejected.

Connecting USB Storage Medium



- 1 Connect the USB storage medium directly to the USB socket on the left side of the device.



6 WiFi Display – Miracast

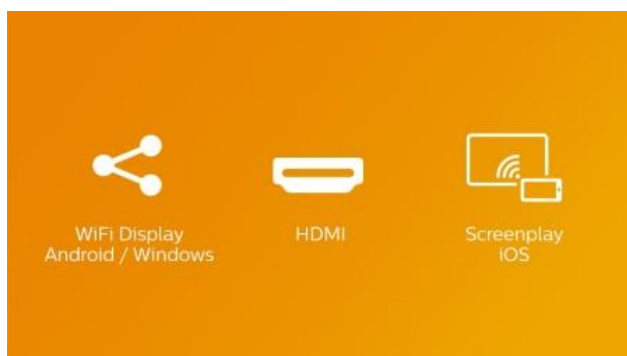
Note

 Only Miracast-certified devices can use this function.

10 Wait some seconds until the phone or tablet shows “connected” and your projector will show (mirror) the screen of the phone.

11 To exit the function, press .


- 1 Switch the device on using the **on/off** switch on the side.
- 2 After the initial screen the main menu appears.
- 3 Connect the wireless dongle to the USB port of the device
- 4 Use the navigation keys to select **Source**.
- 5 Confirm with .
- 6 Use the navigation keys to select **WiFi Display**.
- 7 Confirm with .



- 8 Make sure that the WiFi function of the phone or tablet is enabled.
- 9 Enable Miracast function (also named Screen Mirroring, Wifi direct or Screen Cast) of the phone or tablet. Afterwards select the projector name (for example PPX3417W-406E) on the phone or tablet.




Note

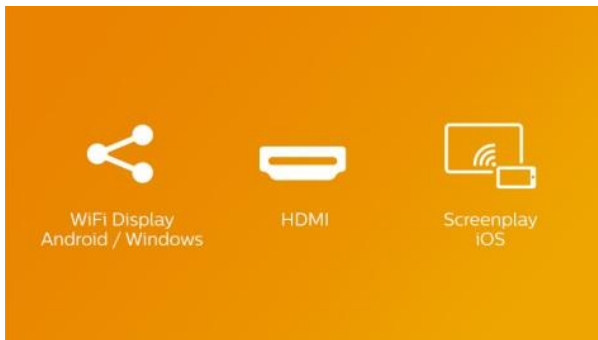
 The projector name will be shown at the initial screen of the WiFi Display function.



7 ScreenPlay

Note


 Screen mirroring is only available from iPhone 4s and iPad 2 onwards.

- 1 Switch the device on using the **on/off** switch on the side.
- 2 After the initial screen the main menu appears.
- 3 Connect the wireless dongle to the USB port of the device
- 4 Use the navigation keys to select **Source**.
- 5 Confirm with .
- 6 Use the navigation keys to select **ScreenPlay**.




- 7 Confirm with .
- 8 Make sure that the WiFi function of the phone or tablet is enabled.
- 9 Connect your iPhone or iPad with the WiFi Hotspot created by the projector (for example: PPX3417W-406E).
- 10 On your iPhone/iPad, swipe up from the bottom of your screen.
- 11 Tap Airplay and afterwards on the projector name.
- 12 Turn on screen mirroring.
- 13 To exit the function, press .

Note

 Internet connection of the iPhone/iPad will be maintained via 3G/4G network if available.

Note

 Information: Not all content can be shared between the iPhone/iPad and the projector. In particular videos which are copy protected or stored on the internet (e.g. videos stored on youtube) can't be played on the projector.

8 Media Playback

Note



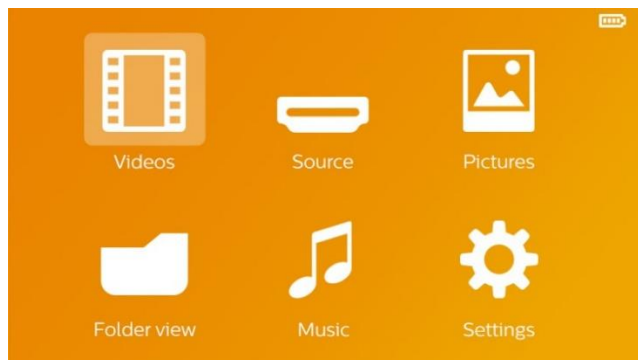
Navigation keys

All the keys shown are buttons on the remote control.

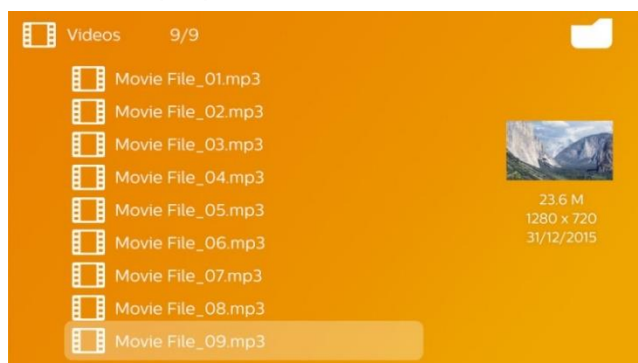
Video Playback

Video Playback (USB/SD Card/Internal Memory)

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



- 3 Use the navigation keys to select **Videos**.
- 4 Confirm with **OK**.
- 5 **With an inserted memory card or USB storage device:** Select the internal memory, the USB storage medium or the memory card using the keys.
- 6 Confirm with **OK**.
- 7 Use **▲/▼** to select the video file that you wish to play.



Note



Displaying Video Files

Only those videos that are compatible with the Pocket Projector will be displayed.

- 8 Press **OK** to start playback.

- 9 Press **Stop** to end playback and return to the overview.

- 10 When you press **Stop** again, you will return to the main menu.

Note



Navigation during playback

Fast forward / fast backward: Press **FF** / **FB** on the remote control or **FF** / **FB** on the device.

Press **Play/Pause** to stop or continue playback.

During playback you can adjust the volume using **Vol+** / **Vol-** on the remote control. Press **Mute** or **Vol-** repeatedly to shut off the volume completely.

File Format

There are various video file formats as *.mov, *.avi, *.m4v. Many of these formats function as a container that contains the various encoded audio and video files. MPEG-4, H.264, MP3, and AAC are all examples of encoded audio/video files. In order to play these files, the projector must read them and decode the audio/ video signals.

Please note that some files cannot be played as a result of different video and audio encoders.

Supported File Formats

Container	Video Format
*.avi, *.mkv	MJPEG, MPEG-4, H.264
*.mov, *.mp4	MPEG-4, H.264
*.ts	MPEG-2, H.264
*.m2ts	H.264
*.3gp	H.263
*.rm, *.rmvb	Real video
*.dat, *.vob	MPEG-1, MPEG-2
*.mpg, *.mpeg	MPEG-1, MPEG-2

Video Playback (Mini-HDMI Socket)

- 1 Connect the audio/video output of the external device to the Pocket Projector's mini-HDMI socket. Use the corresponding cable and cable adapter for this purpose (see also chapter Connect to the playback device, page 12).
- 2 To find out how to deactivate the video output for the external device, please see the relevant instruction manual. Most often, this option is labelled "TV out" or "TV Output" in the corresponding menu.
- 3 Start the video playback on the external device.
- 4 Modify the volume with \ominus/\oplus .

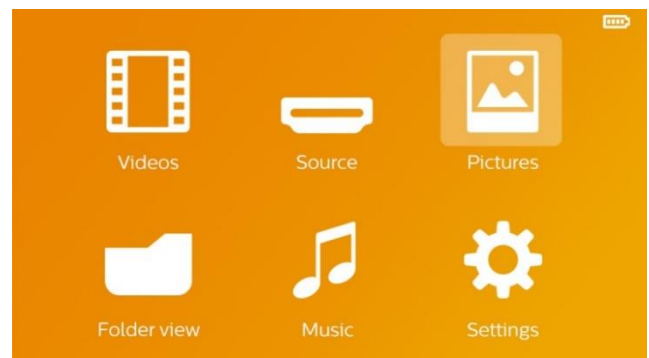
Modify Settings During Playback

- 1 Press the \blacktriangle or \blacktriangledown key.
- 2 Use the $\blacktriangle/\blacktriangledown$ keys to choose from the following settings:
 - Brightness:** Adjust brightness
 - Contrast:** Adjust contrast
 - Saturation:** Adjust colour saturation
 - Smart Settings:** Select predefined settings for brightness / contrast / colour saturation
 - Volume:** Adjust volume level
- 3 Modify the setting using $\blacktriangleleft/\blacktriangleright$.

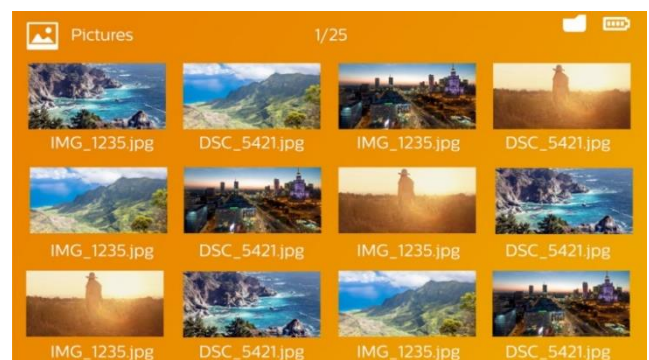
The device saves the modified settings automatically.

Photo Playback

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



- 3 Use the navigation keys to select Pictures.
- 4 Confirm with OK .
- 5 **With an inserted memory card or USB storage device:** Select the internal memory, the USB storage medium or the memory card using the $\blacktriangle/\blacktriangledown$ keys.
- 6 Confirm with OK .
- 7 Miniature photos are displayed on the screen as an overview.



Note



Miniature View or List

In the settings, you are able to select whether the overview will be displayed as miniatures or in a list.

Note



Many Photos on the Memory Card or the USB Medium

If there are a lot of photos on the memory card or the USB storage medium it can take a moment before the overview appears.

- 8 Use $\blacktriangleleft/\blacktriangleright$ or $\blacktriangle/\blacktriangledown$ to select the image that you want to start the slide show with.
- 9 Press OK to start the slide show.

Note



Zoom in / Zoom out

You can enlarge the displayed image during the slide show using the key. Use the /// keys to move around the magnified image.

- 10 Press to pause the slide show.
- 11 Press to end the slide show and return to the overview.
- 12 When you press again, you will return to the main menu.

Music Playback

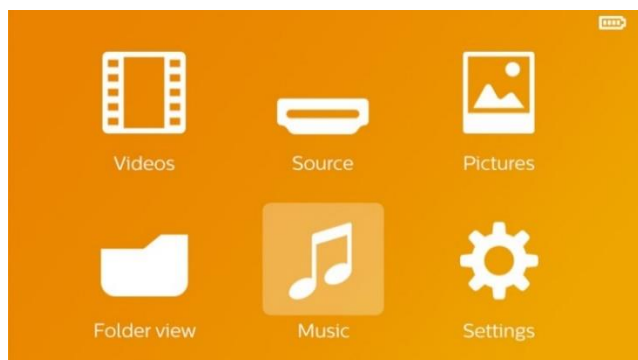
Note



Switch off the image playback

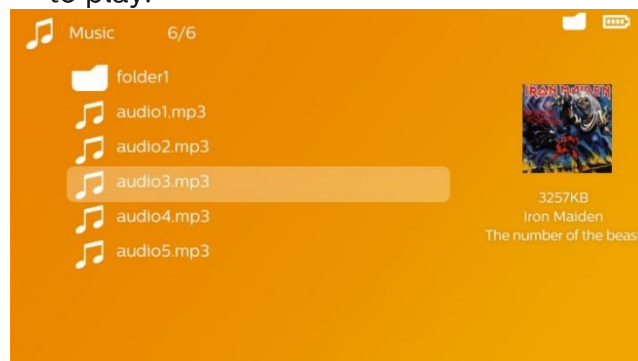
You can turn off image playback while playing music in order to save power (see also chapter Music Settings, page 24). As soon as you press the key, the image reappears and the fan starts again.

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



- 3 Use the navigation keys to select **Music**.
- 4 Confirm with .
- 5 **With an inserted memory card or USB storage device:** Select the internal memory, the USB storage medium or the memory card using the / keys.
- 6 Confirm with .

- 7 Use / to select the file that you wish to play.



- 8 Press to start playback.
- 9 Press to stop or continue playback.

Note



Navigating when image playback is switched off

Press / to skip to the previous or next song.

Press to stop or continue playback.

Press to return to the selection.

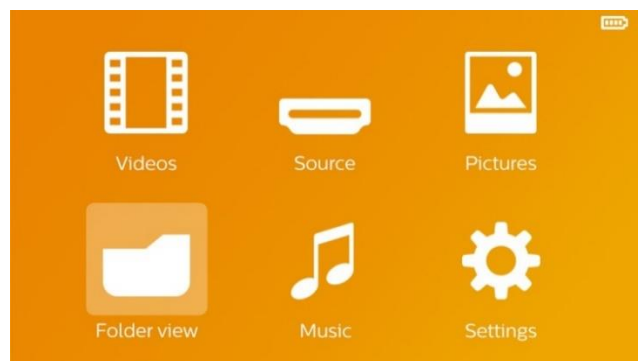
During playback you can adjust the volume using / on the remote control. Press or repeatedly to shut off the volume completely.

Managing Files

Copy Files

You can copy files back and forth from the internal memory to the connected USB storage medium or memory card.

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



- 3 Use the navigation keys to select **Folder View**.
- 4 Confirm with .

5 With an inserted memory card or USB storage device: Select the internal memory, the USB storage medium or the memory card using the keys.

6 Confirm with **OK**.

7 Use **▲/▼** to select the file that you want to copy.

Note



No Files Found (0 files)

Only those files that are compatible with the Projector will be displayed.

8 Mark the file using **▶**. Pressing the key again deselects the chose file(s).

Note



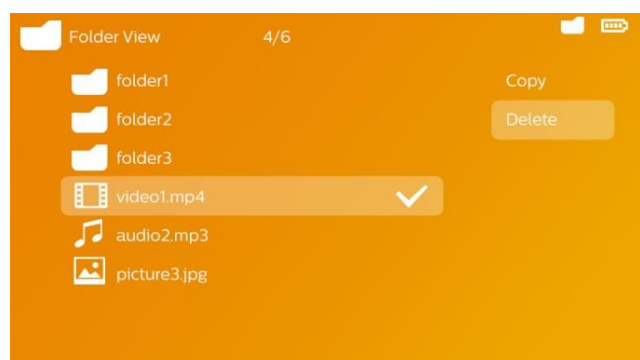
Mark the Entire Folder

You can also mark an entire folder to copy all files from the folder. Note that the copy process of large folders can takes some time.

9 Use **▲/▼** to select other files.

10 Press **OK**.

11 Select with **▲/▼** **Copy**.



12 Confirm with **OK**.

13 Use **▲/▼** to select the destination memory: **SD card**, **internal memory** or **USB storage medium**.

14 Confirm with **OK**.

Note



Files Already Exist

If the files you are copying already exist in the target folder, you must choose whether or not you want to overwrite them using **▲/▼** and **OK**. If you choose not to overwrite these files, copies will be created. The copies can be recognised by a number added to the file names.

15 The files are copied

Note



Error

If errors occur during the copying process, make sure that enough free space is available on the medium.

Note



Removing Storage Medium

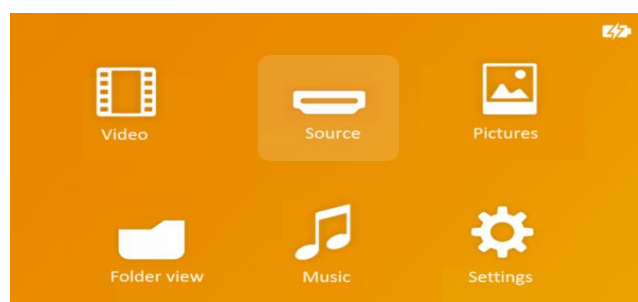
Only remove the storage medium after the copy process is complete.

Delete Files

You can delete files from the internal memory, the connected USB storage medium or the memory card.

1 Switch the device on using the on/off switch on the side.

2 After the initial screen the main menu appears.



3 Use the navigation keys to select **Folder View**.

4 Confirm with **OK**.

5 With an inserted memory card or USB storage device: Select the internal memory, the USB storage medium or the memory card using **▲/▼** keys.

6 Confirm with **OK**.

7 Use **▲/▼** to select the file that you want to delete.

Note



No Files Found (0 files)

Only those files that are compatible with the Projector will be displayed.



8 Mark the file using **▶**. Pressing the key again deselects the chose file(s).

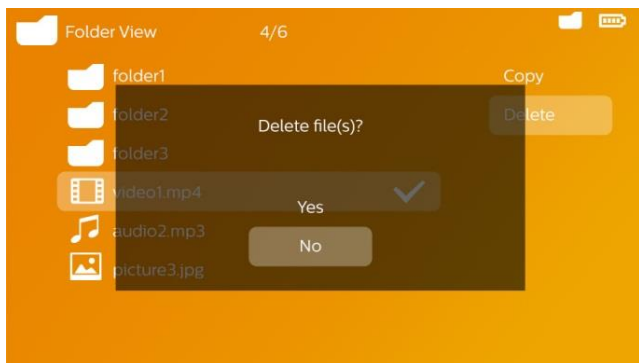
9 Use **▲/▼** to select other files.

10 Press **OK**.

11 Select with **▲/▼** **Delete**.

12 Confirm with **OK**.

13 Use / if you want to delete the files or cancel the deletion process.



14 Confirm with .

Note



Error

If errors occur during the deletion process, make sure that the storage medium is not write-protected.

Note



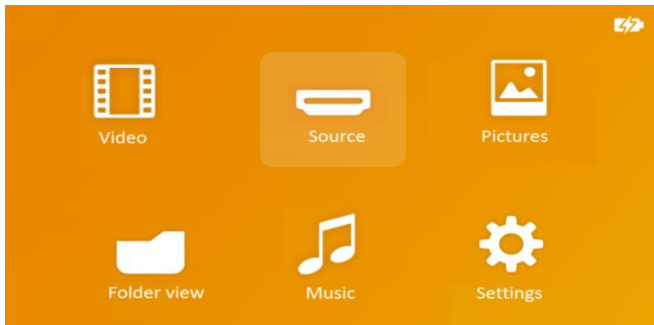
Deleting photos on the memory card

When deleting photos via the computer, note that the photos may not be correctly displayed when the memory card is inserted into the digital camera again. Digital cameras sometimes store additional information in specific folders, including previews and orientation information.

For this reason, only delete the photos using the digital camera.

Microsoft® Office & Adobe® PDF Files Playback

- 1 Switch the device on using the on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



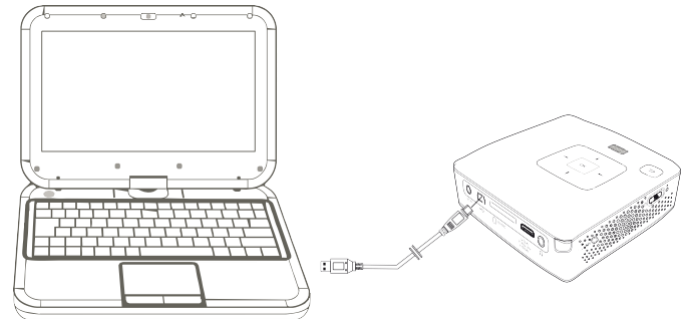
- 3 Use the navigation keys to select **Folder View**.
- 4 Confirm with **OK**.
- 5 **With an inserted memory card or USB storage device:** Select the internal memory, the USB storage medium or the memory card using **▲/▼** keys.
- 6 Confirm with **OK**.
- 7 Use **▲/▼** to select the Microsoft® Office file or Adobe® PDF file that you wish to view.
- 8 Press **OK** to start view.
- 9 Press **↶** to end view and return to the overview.
- 10 When you press **↶** again, you will return to the main menu.

Note

i **Zoom in / Zoom out**
You can enlarge the displayed image during the slide show using the **🔍** key. Use the **◀/▶**, **▲/▼** keys to move around the magnified image.

Connect to a Computer (USB)

You can use the USB cable to connect the Pocket Projector to a computer. In this way, you are able to copy files back and forth between the internal memory, an inserted memory card and the computer. You can also delete the files. You can playback the files saved on the Pocket Projector on your computer.



- 1 Connect the mini-USB socket to the Pocket Projector and the USB socket to the computer.
- 2 Switch the device on using the on/off switch on the side.
- 3 A confirmation appears when the devices are connected successfully.

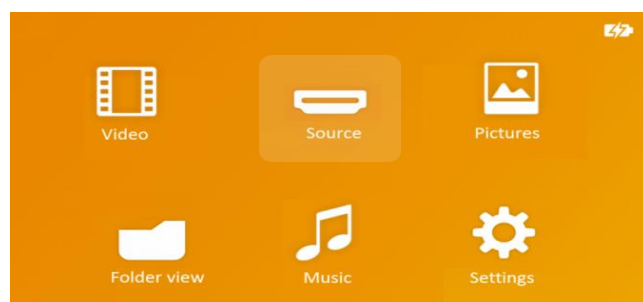
Note

i **Successful connection**
You cannot use the Pocket Projector when it is connected to a computer via USB.

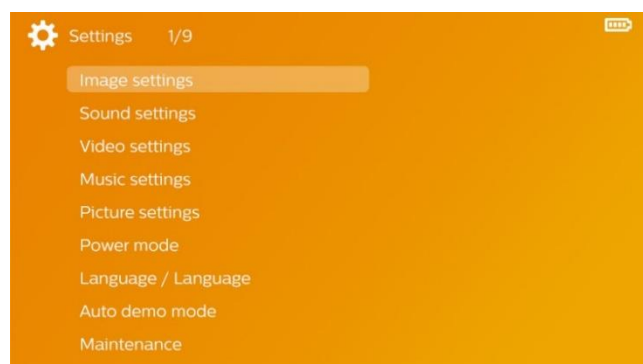
- 4 If a memory card has been inserted, it will be displayed as another disk drive.
- 5 You can move, copy or delete data from the computer, the memory card (if inserted) and the internal memory.

9 Settings

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen the main menu appears.



- 3 Use the navigation keys to select **Settings**.
- 4 Confirm with **à**.
- 5 Use **▲/▼** to select from the following settings.



- 6 Confirm with **OK**.
 - 7 Modify the settings using **OK**, **▲/▼**,
 - 8 Confirm with **OK**.
- The **←** key takes you one step back in the menu.

Image settings

Wall paper—Select background images

Fit Screen—Convert videos and images to 16:9 resolution

Projection mode

Front—Normal projection; the device is located in front of the projection surface/screen.

Rear—Rear projection; the device is located behind the projection surface; the image is horizontal mirrored.

Ceiling—The device is hanging from the ceiling in an upside-down position; the image is rotated by 180 degrees.

Rear ceiling—The device is hanging from the ceiling in an upside-down position behind the projection surface; the image is rotated by 180 degrees and horizontal mirrored.

Wall colour correction—Colour correction of the projected image to adjust to coloured projection surfaces

Smart Settings—Select predefined settings for brightness / contrast / colour saturation. If you modify these settings, the setting is switched to **Manual**.

Brightness—Adjust brightness

Contrast—Adjust contrast

Saturation—Adjust colour saturation

Sound Settings:

Volume—Adjust the volume

Bass—Set the playback of the low frequencies

Treble—Set the playback of the high frequencies

Key beep—Turn key tones on and off

Video Settings

View—Display all videos in a list or a corresponding folder structure on the drive.

Repeat—Set the repeat type for video files: Repeat deactivated (**Off**), repeat all videos in a directory (**Directory**), repeat only the current video (**Movie**), repeat all videos (**All**).

Resume play—If this function is activated, playback will continue at the position it was last stopped. If deactivated, playback will always start at the beginning of the video.

Music Settings

View—Show all songs in a list or a corresponding folder structure on the drive.

Screen—Activate or deactivate the projection during playback.

Repeat—Set the repeat type for music files: Repeat deactivated (**Off**), repeat all songs in a directory (**Directory**), repeat only the current song (**Song**), repeat all songs (**All**).

Shuffle—Activate this function for random playback. Otherwise, playback will take place in sequence.

Picture Settings

View—Display the images as a **thumbnail** or as a **list** during selection in the main menu.

Time per slide—Image viewing time during slide show

Repeat—Set the type of repeat for slide show photos: Repeat off (**Off**), repeat all photos in the directory (**Directory**), repeat all stored photos (**All**).

Slide transition—Set image transitions

Slideshow order—Play slide show in order or randomly

Power Save

Brightness mode—Adjust the brightness level in order to save the power consumption and increase battery play time.

Sleep mode—With this function, the projector automatically shuts down after a specified period of time or at the end of a movie.

Language

Select the desired language for the menu.

Auto Demo Mode

Play automatically demonstration videos when product is powered on.

Maintenance

Reset settings—Reset settings to factory defaults.

Firmware Update—Update Firmware.

Note



Connect for the duration of the firmware update the power adapter.

Information—Display free space in the internal memory and information on the device (Capacity: / Free space: / Firmware Version / Device name: / Model / Mcu Version)

10 Service

Care Instructions for the Battery

The capacity of the battery diminishes with time. You can prolong the life of the battery if you observe the following points:

- Without a power supply, the device operates from the built-in battery. When the battery does not have sufficient capacity, the device switches to stand-by mode. Connect the device to the power supply.
- When the battery does not have sufficient capacity, the battery symbol in the display and the battery status light on the side of the device turns red.
- When the device is running for a long period of time, the surface becomes hot and a warning symbol appears on the projection. The device switches automatically to stand-by mode when it gets too hot. After the device has cooled down, you can continue playback by pressing any key.
- Use the device at least once a week.
- Charge the battery regularly. Don't store the device with a completely discharged battery.
- If the device is not used for several weeks, discharge the battery a little by using the device before storing it.
- If the device only works using the USB connection or with the power supply, the battery is defective.
- Keep the device and the battery away from sources of heat.

DANGER!



Do Not Replace the Battery Yourself.

Do not try to replace the battery yourself. Incorrect handling of the battery or using the wrong type of battery can cause damage to the device or cause injury.

Battery Deep Discharge

When the battery is in deep discharge or the device is not used for a longer period, proceed as followed:

- 1 Connect the device to the power supply (see also chapter Connecting power supply / Charging battery, page 9). The device behaves as follows:

	Device off	Device on
Connect to a computer	Slow charging	Device turns on and off again
Connect to the power adapter	Fast charging	Device remains turned on Slow charging

- 2 The device can be turned on and is ready to use after approximately five minutes of charging time.

Battery Recharge Time with Device

	Turning on	Completely charged
Slow charging	5 minutes	10 hours
Fast charging	5 minutes	3 hours

Cleaning

DANGER!



Switching off the Device!

Switch the device on or off using the power switch before removing the power supply from the socket.

DANGER!



Instructions for Cleaning!

Use a soft, lint-free cloth. Never use liquid or easily flammable cleansers (sprays, abrasives, polishes, alcohol, etc.). Do not allow any moisture to reach the interior of the device. Do not spray the device with any cleaning fluids.

Wipe over the surfaces gently. Be careful that you do not scratch the surfaces.

Cleaning the Lens

Use a brush or lens cleaning paper for cleaning the lens of the projector.

DANGER!



Do not use Any Liquid Cleaning agents!

Do not use any liquid cleaning agents for cleaning the lens, to avoid damaging the coating film on the lens.

Device Overheated

A overheat symbol appears if the device is overheated.

- At maximum level of brightness the symbol appears in the status bar and the device turns automatically to minimum level of brightness.
- At minimal level of brightness the symbol shows for three seconds in the middle of the screen. Then the device turns off automatically.

Troubleshooting

Power Cycling

If a problem occurs that cannot be corrected with the instructions in this user manual (see also the help below), follow the steps given here.

- 1 Switch the device off using the on/off switch on the side.
- 2 Wait at least ten seconds.
- 3 Switch the device on using the on/off switch on the side.
- 4 If the problem repeats, please contact our technical customer service or your retailer.

Problems	Solutions
The Pocket Projector cannot be switched on	<ul style="list-style-type: none">• Connect the supplied power supply to recharge the internal battery.
No sound	<ul style="list-style-type: none">• Adjust the volume using the \oplus/\ominus key on the remote control.
No sound from the external connected device	<ul style="list-style-type: none">• Check the cables to the external device.• Set the volume on the external device.• Only the original cables from the device manufacturer may function.
Bad sound quality with your computer connection	<ul style="list-style-type: none">• Check if the audio cable is connected to the computers headphone socket or the line-out socket.• The volume setting on the computer should not be too high.
Only the initial screen appears and not the image from the external device	<ul style="list-style-type: none">• Check if the cables are connected to the right sockets.• Please check that the external device is switched on• Check if the video output of the external device is switched on.
Only the initial screen appears and not the image from the connected computer	<ul style="list-style-type: none">• Please check that the VGA-output of the computer is switched on.• Check if the resolution of the computer is set to 800 x 600.
Device switches to stand-by mode	<ul style="list-style-type: none">• When the device is running for a long period of time, the surface becomes hot and a warning symbol appears on the projection. The device switches automatically to stand-by mode when it gets too hot.• After the device has cooled down, you can continue playback by pressing any key.• When the battery does not have sufficient capacity, the device switches to stand-by mode. Connect the device to the power supply.
Devices changes from maximum level of brightness to minimum level of brightness when the device is connected over USB to play videos	<ul style="list-style-type: none">• When the environment temperature is too high, the devices turns automatically from maximum level of brightness to minimum level of brightness in order to protect the high power LED.• Use the device with lower environment temperatures.

Problems	Solutions
Device cannot connect with an Android device (for example mobilephone/smartphone with Android operating system) when connected via USB.	<ul style="list-style-type: none"> • Deactivate the function „USB debugging“ in the settings menu of your Android device before connecting the Pocket Projector via USB; your Android device should be recognized as USB storage medium.

11 Appendix

Technical Data

Dimensions (L × H × W)	105 × 31 × 105 mm
	4.13 × 1.22 × 4.13 inch
Weight	0.27 kg (9.5 oz)
Recommended ambient	5 – 35 °C
Relative humidity	20 – 80 %
	(non-condensing)
File format	*.mp4, *.avi, *.mov, *.mkv, *.dat, *.mpg, *.mpeg, *.vob, *.ts *.m2ts, *.rm, *.rmvb, *.3gp
Photo formats	JPEG, BMP
Music formats	MP3, WAV, WMA, OGG, AAC
Video standard (CVBS)	PAL, SECAM, NTSC, HD
Video standard (YPbPr)	480i/p, 576i/p, 720p, 1080i/p
Video connection	Mini-HDMI & A/V-in socket
Headphone connection	Stereo – jack plug: 3.5 mm
Audio Output	1 W
Internal memory	4 GB
Compatible memory cards	SD/SDHC/SDXC/MMC

Technology / Optical

Display technology	WVGA 0.3" DLP
Light source	RGB LED
Resolution	854 x 480 Pixel (16:9) 800 x 600 Pixel (4:3)
Supported resolutions	VGA/SVGA/WVGA XGA/WXGA
Brightness (Bright Mode)	up to 170 lumen
Contrast ratio	1000:1
Projected image size	30.5 – 305 cm 12 – 120 inch
Screen distance	0.5 m – to 5 m 19.7 – 197 inch
Horizontal scan rate	31 – 69 kHz
Vertical scan rate	56 – 85 Hz

Power Supply

Model no	MPA-630
Manufacturer	Wanlida Group Co., Ltd.

Built-in Rechargeable Battery

Battery type	LiPol
Capacity	1800mAh, 7.4V
Charging time	3 h
Operating time	1 h
Operating time (ECO mode switched on)	2 h
Manufacturer	Great Power

WiFi Dongle

Operating frequency band	2400–2483.5 MHz
Max. transmitted power	100 mW

Accessories

Following accessories are available for your device:	
YUV /YPbPr Adapter Cable	PPA1210/253447083
VGA cable	PPA1250/253447070
MHL to mini-HDMI cable	PPA1240/253520048
Mini DisplayPort cable	PPA1270/253520069
Mini HDMI to micro HDMI cable	PPA1330/253664643

Open Source Software

This product contains open source software. The texts of the licenses, acknowledgements and the procedure how to obtain the source code are included in the document “Open Source Documentation.pdf”, which is contained in the local memory of this product.

All data are provided for reference purposes only. **X-GEM SAS** reserves the right to make any changes without prior notice.



Hereby, X-GEM SAS declares that the equipment is in compliance with Directives 2014/53/EU, 2009/125/EC, 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: www.philips.com

Preservation of the environment as part of a sustainable development plan is an essential concern of X-GEM SAS. The desire of X-GEM SAS is to operate systems observing the environment. The desire of X-GEM SAS is to operate systems observing the environment and consequently it has decided to integrate environmental performances in the life cycle of this product, from manufacturing to commissioning use and elimination.



Federal Communications Commission (FCC)

Statement: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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;
- (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Radiation Exposure Statement: This transmitter must not be co-location or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 7.8 inches (20 centimeters) between the radiator and your body.

Canada Regulatory Compliance: This device complies with Industry Canada CAN ICES-3 (B)/NMB-3(B)

RSS-Gen & RSS-247 statement: This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

RF Radiation Exposure statement: The device meets the exemption from the routine evaluation limits in section 2.5 of RSS102 and users can obtain Canadian information on RF exposure and compliance.

This equipment should be installed and operated with a minimum distance of 7.8 inches (20 centimeters) between the radiator and your body.



Packaging: The presence of the logo (green dot) means that a contribution is paid to an approved national organisation to improve package recovery and recycling infrastructures. Please respect the sorting rules set up locally for this kind of waste.

Batteries: If your product contains batteries, they must be disposed of at an appropriate collection point.



Product: The crossed-out waste bin stuck on the product means that the product belongs to the family of electrical and electronic equipment. In this respect, the European regulations ask you to dispose of it selectively;

- At sales points in the event of the purchase of similar equipment.
- At the collection points made available to you locally (drop-off centre, selective collection, etc.).

In this way you can participate in the re-use and upgrading of Electrical and Electronic Equipment Waste, which can have an effect on the environment and human health.

The paper and cardboard packaging used can be disposed of as recyclable paper. Have the plastic wrapping and Styrofoam packaging recycled or dispose of it in the non-recyclable waste, depending on the requirements in your country.

Trademarks: The mentioned references in this manual are trademarks of the respective companies. The lack of the trademarks ® and ™ does not justify the assumption that these dedicated terminologies are free trademarks. Other product names used herein are for identification purposes only and may be trademarks of their respective owners. X-GEM SAS disclaims any and all rights in those marks.

Neither X-GEM SAS nor its affiliates shall be liable to the purchaser of this product or third parties for damages, losses, costs, or expenses incurred by the purchaser or third parties as a result of accident, misuse, or abuse of this

product or unauthorized modifications, repairs, or alterations to this product, or failure to strictly comply with X-GEM SAS operating and maintenance instructions.

X-GEM SAS shall not be liable for any damages or problems arising from the use of any options or any consumable materials other than those designated as original X-GEM SAS / PHILIPS products or X-GEM SAS / PHILIPS approved products.

X-GEM SAS shall not be held liable for any damage resulting from electromagnetic interference that occurs from the use of any interface cables other than those designated as X-GEM SAS / PHILIPS products.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of X-GEM SAS. The information contained herein is designed only for use with this product. X-GEM SAS is not responsible for any use of this information as applied to other devices.

This user manual is a document that does not represent a contract.

Errors, printing errors and changes are reserved.
Copyright © 2016 X-GEM SAS



PHILIPS and the PHILIPS Shield Emblem are registered trademarks of Koninklijke Philips N.V. used under license.

This product was brought to the market by X-GEM SAS, further referred to in this document as X-GEM SAS, and is the manufacturer of the product.

© 2016 X-GEM SAS. All rights reserved

Headquarters

X-GEM SAS

9 rue de la Négresse

64200 Biarritz – France

Tel: +33 (0)5 59 41 53 10

www.xgem.com

PPX3417W · PPX3517W · PPX3516 · PPX3512

EN

253665533-A