

**PHILIPS**

*PicoPix Micro*

Portable projector

PPX320/321/322

# User Manual



Register your product and get support at  
[www.philips.com/support](http://www.philips.com/support)

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# Introduction

## Dear customer

Thank you for purchasing this projector.

We hope you enjoy this product and the many functions it offers!

## About this user manual

The quick start guide supplied with this product allows you to start using this product quickly and easily. Detailed descriptions can be found in the following sections of this user manual.

Read the entire user manual carefully. Follow all safety instructions in order to ensure proper operation of this product (**see General safety information, page 4**). The manufacturer accepts no liability if these instructions are not followed.

## Symbols used

### Notice



#### Troubleshooting

This symbol indicates tips that will help you in using this product more effectively and easily.

### DANGER!



#### Danger of personal injury!

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

### CAUTION!

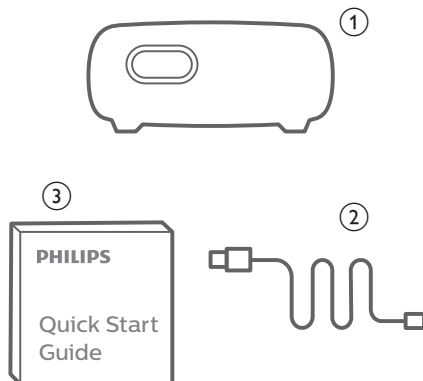


#### Damage to the product or loss of data!

This symbol gives warning of damage to the product and possible loss of data. Damage can result from improper handling.

## What's in the box

- ① PicoPix Micro projector (PPX320/321/322)
- ② USB cable
- ③ Quick Start Guide



## Customer service centre

You can find the support hotline in the warranty card or online:

**Web:** [www.philips.com/support](http://www.philips.com/support)

**Mail:** [philips.projector.eu@screeneo.com](mailto:philips.projector.eu@screeneo.com)

**International Phone:** +41 215 391 665

Please ask your provider for international call costs!

Access the electronic user manual at <https://support.screeneo.com>

Access the community forum at <https://community.screeneo.com>

# 1 General safety information

Take note of all warning and safety notes indicated. Do not make any changes or settings that are not described in this user manual. Incorrect operation, and improper handling can lead to physical injury, damage to the product or loss of data.

## Setting up the product

This product is for indoor use only. Place the product securely on a stable, flat surface. To help avoid possible injuries to persons or damage to the product itself, position all cables in such a way that no one will trip over them.

Do not operate the product in damp rooms. Never touch the mains cable or the mains connection with wet hands.

The product must have sufficient ventilation and must not be covered. Do not put the product in closed cabinets, boxes, or other enclosures when in use.

Protect the product from direct sunlight, heat, intense temperature fluctuations and moisture. Do not place the product in the vicinity of heaters or air conditioners. Observe the information on temperature listed in the technical data (see **Technical data, page 14**).

Prolonged operation of the product causes the surface to become hot. In case of overheating, the product automatically switches to standby mode.

Do not allow liquids to leak into the product. Turn off the product and disconnect it from the mains supply if liquids or foreign substances leaked into the product. Have the product inspected by an authorised service centre.

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

If the product gets too hot or emits smoke, shut it down immediately and unplug the power cable. Have your product checked by an authorised service centre. Keep the product away from open flames (e.g. candles).

The product has built-in battery. Do not disassemble and modify. The built-in battery should be replaced by qualified service staff only.

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

### **DANGER!**



#### **Risk of explosion with incorrect type of batteries!**

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

Do not expose the batteries (battery pack or embedded batteries) to excessive heat such as sunshine, or open fire.

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

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

Proceed as follows to avoid any moisture buildup:

- 1 Seal the product 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 product out of the plastic bag.

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

Do not expose the product to extreme vibrations. This may damage the internal components.

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

For your own safety, do not use the product during thunderstorms with lightning.

## Repairs

Do not repair the product yourself. Improper maintenance can result in injuries or damage to the product. The product must be repaired by an authorised service centre.

Please find the details of authorised service centres on the warranty card supplied with this product.

Do not remove the type label from this product, as this will void the warranty.

## Power supply


Use only a certified power adapter. Check whether the mains voltage of the power supply matches the mains voltage available at the setup location. This product complies with the voltage type specified on the product.

The power outlet shall be installed near the product and shall be easily accessible.

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

### CAUTION!



Always use the  button to turn the projector off.

Turn off the product and unplug from the power outlet before cleaning the surface (**see Cleaning, page 11**). Use a soft, lint-free cloth. Never use liquid, gaseous or easily flammable cleaners (sprays, abrasives, polishes, alcohol). Do not allow any moisture to reach the interior of the product.

### DANGER!

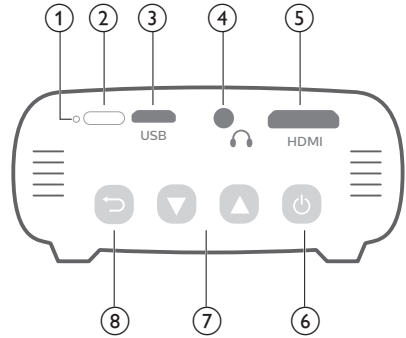


#### Risk of eye irritation!

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

## 2 Overview

### Rear view



#### ① Reset key

Reset the projector to the factory default settings (use a small pin to press the reset key).

#### ② IR sensor

#### ③ Micro USB port

Connect to the power supply.

#### ④

3.5 mm audio output; connect to external speakers or headphones.

#### ⑤ Mini HDMI port

Connect to the HDMI output on a playback device.

#### ⑥

- Press and hold three seconds to switch the projector on or off.
- Access the settings menu.
- Confirm a selection or entry.
- When the projector is switched on, the LED turns blue. When the projector is switched off, the LED turns off.
- When charging the projector, the LED turns red regardless of the projector switching on or off.

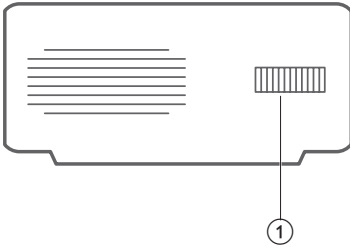
#### ⑦

- Navigate menu options.
- Increase or decrease volume.

#### ⑧

Return to a previous menu screen.


## Side view



- ① **Focus adjustment knob**  
Adjust image sharpness.

## 3 Connect

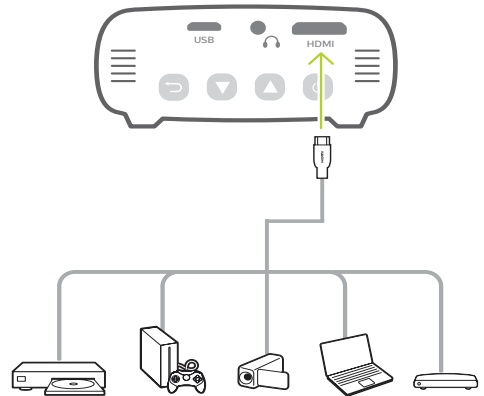
### Notice

-  You need to connect the projector to an HDMI device, so that the projection screen can show images.  
Make sure all devices are disconnected from the power outlet before establishing or changing any connections.

## HDMI connection for image projection

Connect a playback device (e.g. a Blu-ray player, gaming console, camcorder, digital camera or PC) to the projector through HDMI connection. With this connection, images are shown on the projection screen, and audio is played on the projector.

- Using an HDMI cable, connect the **HDMI** connector (mini HDMI port) on the projector to the HDMI output on the playback device. Use an HDMI mini plug adapter for HDMI connection if necessary.



# 4 Operation

## Notice



You need to connect the projector to an HDMI device, so that the projection screen can show images (see **Connect**, page 6).

## Place the projector

Place the projector on a flat surface in front of the projection surface.


You can also install the projector in different configurations (see **Placement options**, page 8).

## Connecting power supply

The projector can be operated by either external power or built-in battery.

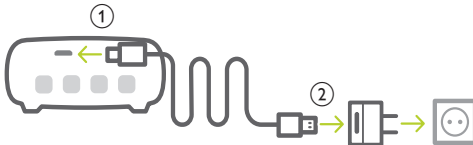
### CAUTION!



Always use the  button to turn the projector on and off.

## Operation by external power

- Using the supplied USB cable, connect the **USB** port on the projector to the USB port on your computer or a power adapter (not included).



## Operation by built-in battery

The projector can be also operated on built-in battery for portability.

## Charging projector

Charge the projector for 1.5 hours before first use.

Charge the projector when the low battery icon appears in the center of the projection screen.

- To charge the projector, connect the projector to an external power supply as described in the section of “Operation by external power”.
- When charging, the LED on the projector


turns red. When fully charged, the red LED turns off.

## Notice









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

## Power on and setup

- Press and hold  on the projector for 3 seconds to switch the projector on or off.
  - When the projector is switched on, the LED on the projector turns blue if the projector is not being charged.
  - When charging, the LED on the projector turns red regardless of the projector switching on and off.

## Set up the language

- When the projector is turned on, press  on the projector to access the settings menu, then navigate to select *Language*, and press **OK**.
- Press / to select a language.

	Language	English
	SW Version	V1.0.2
	HW Version	V2
	Soft. Update	
	Full Reset	

## Changing screen size

The projection screen size (or size of images) is determined by the distance between the lens of the projector and the projection surface.

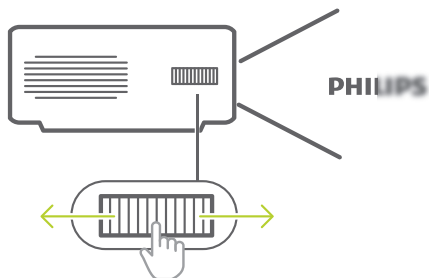
- You can also use the digital zoom to reduce the screen size up to 50%. When the projector is turned on, press **⏻** on the projector to access the settings menu, then navigate to select *Digital Zoom*, and press **OK**. Then press **▲/▼** to adjust image size.

	Picture Preset	Cinema
	Picture Adj.	
	Color Temp.	Standard
	Proj. Direc.	Front proj.
	Digital Zoom	100

- The projection image size is up to 65”.
- The projection distance is 80 cm to 200 cm.

## Image sharpness adjustment

To adjust image focus, turn the focus adjustment knob on the side of the projector.



## Connecting to external speakers or headphones



Connect external speakers or headphones to the projector. With this connection, audio from the projector is played through the external speakers or headphones.

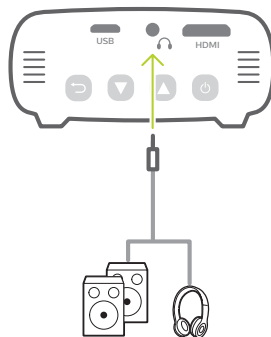
### DANGER!



#### Danger of hearing damage!

Before connecting the headphones, turn down the volume on the projector. Do not use the projector over a longer time at high volume – especially when using headphones. This could lead to hearing damage.

- 1 Using a 3.5 mm audio cable, connect the  connector on the projector to the analogue audio input (3.5 mm jack, or red and white jacks) on the external speakers. Or connect the  connector on the projector to headphones.
  - The speakers of the projector are deactivated automatically when the external speakers or headphones are connected to the projector.



- 2 When connecting to the headphones, press **▲/▼** to adjust the volume to a comfortable level.

## Placement options

You can install the projector in the following configurations. Follow the guidelines below for different projector placement.



## Notice



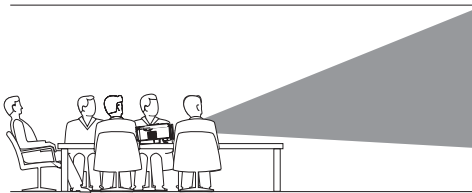
For overhead mounting on ceiling, purchase a projector mount recommended by an installation professional and follow the instructions that come with the mount.


Before mounting on the ceiling, make sure the ceiling can support the weight of the projector and mounting kit.

For ceiling installation, this product must be securely attached to the ceiling in accordance with the installation instructions. An improper ceiling installation may result in accident, injury or damage.

### Front table

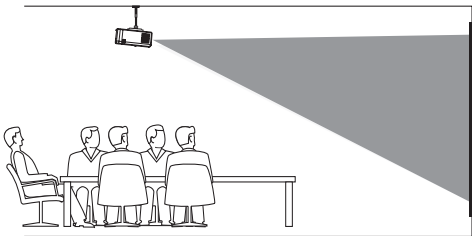
- 1 Place the projector on a table in front of the projection screen. This is the most common way to position the projector for quick setup and portability.




- 2 To adjust projection to the correct position, when the projector is turned on, press  on the projector to access the settings menu, then navigate to select *Proj. Direc. - Front proj.*, then press **OK**.

### Front ceiling

- 1 Mount the projector on the ceiling with upside up in front of the projection screen. A projector mount is required to mount the projector on ceiling.

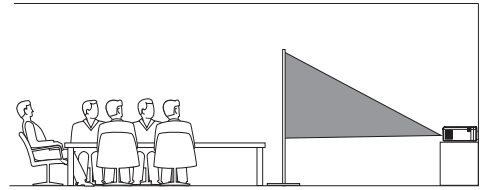



- 2 To adjust projection to the correct position, when the projector is turned on, press  on the projector to access the settings menu,

then navigate to select *Proj. Direc. - Rev. front proj.*, then press **OK**.

### Rear table

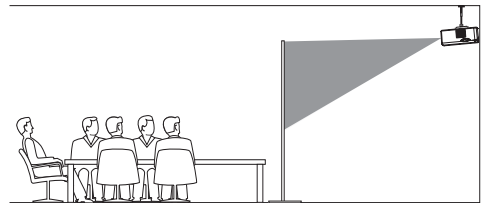
- 1 Place the projector on a table behind the projection screen. A special rear projection screen is required.




- 2 To adjust projection to the correct position, when the projector is turned on, press  on the projector to access the settings menu, then navigate to select *Proj. Direc. - Rear proj.*, then press **OK**.

### Rear ceiling





- 1 Mount the projector on ceiling with upside up behind the projection screen. To mount the projector on ceiling behind the screen, a projector mount and a special rear projection screen is required.



- 2 To adjust projection to the correct position, when the projector is turned on, press  on the projector to access the settings menu, then navigate to select *Proj. Direc. - Rev. rear proj.*, then press **OK**.

# 5 Change settings



This section helps you change the settings of the projector.

- 1 When the projector is turned on, press  on the projector to access settings menu.
- 2 Press / to navigate menu options, then press  on the projector to confirm the settings.

	Eco Mode	On
	Picture Preset	Vivid
	Volume	50
	Sleep Timer	Off
	Display Duration	15
	Position	Center






## Language settings

Select your desired language for on-screen menu.






- Navigate to *Language*, and press **OK**, then press / to select a language.

## Picture settings

- *Picture Preset*: Select a predefined color brightness setting for picture and video display.

	Picture Preset	Cinema
	Picture Adj.	Standard
	Color Temp.	Vivid
	Proj. Direc.	User
	Digital Zoom	Vivid

- *Picture Adj.*: Adjust *Brightness/Contrast/Saturation/Toneburst/Sharpness* with the values from 0 to 100.








	Picture Preset	Brightness
	Picture Adj.	Contrast
	Color Temp.	Saturation
	Proj. Direc.	Toneburst
	Digital Zoom	Sharpness

- *Color Temp.*: Set to *Warm* to enhance hotter colors such as red; set to *Cool* to make picture bluish; set to *User* to customize color values in RGB mode.
- *Proj. Direc.*: Adjust the projection to the correct position based on different installation of the projector.
- *Digital Zoom*: Scale the projection image within the range from 50% to 100%.







## Power control settings

Go to the following menu options to control power consumption.

- *Sleep Timer*: Select a time option which enables the projector to automatically turn off at a specified period of time.

	Eco Mode	Off
	Picture Preset	30 Min
	Picture Adj.	1 H
	Volume	2 H
	Sleep Timer	3 H
	Display Duration	4 H
	Position	Center

- *ECO Mode*: Activate or deactivate energy saving mode. If *On* is selected, energy saving mode is activated when low battery power occurs.
- *Display Duration*: Select a timer to automatically turn the screen off when the projector is idle.

	Eco Mode	On
	Picture Preset	Always Show
	Picture Adj.	5 Sec
	Volume	10 Sec
	Sleep Timer	15 Sec
	Display Duration	Center

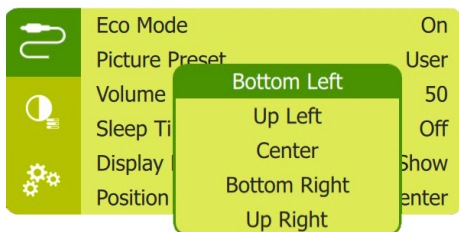
## Restore default settings

If the projector does not function normally, reset the projector to the default settings. It will delete all the current settings.

- Navigate to *Full Reset*, and press **OK**, then follow on-screen instructions to complete resetting.

## Other settings

- *Position*: Re-position the settings menu on the projection screen when it appears.



- *Volume*: Adjust volume of the projector.
- *SW Version*: Display the current software version of the projector.
- *HW Version*: Display the current hardware version of the projector.
- *Soft. Update*: Upgrade system software via a USB device (see **Update software**, page 12).

# 6 Service

## Built-in battery care

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

- Without a power supply, the projector operates on the built-in battery. When the battery does not have sufficient power, the projector turns off. In this case connect the projector to the power supply.
- Charge the battery regularly. Don't store the projector with a completely discharged battery.
- If the projector is not used for several weeks, discharge the battery a little by using the projector before storing it.
- Keep the projector and the battery away from sources of heat.
- If the projector cannot be charged after connecting to the power supply, use a small pin to press the reset key (a small hole) located near the **USB** port of the projector.

### Note about deep discharge of battery

When the built-in battery is in deep discharge, it may take longer for the actual charging process to start. In this case, charge the projector for at least five hours before using it.

#### DANGER!



**Risk of explosion with incorrect type of batteries!**

Do not try to replace the built-in battery yourself.

## Cleaning

#### 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 projector. Do not spray the projector with any cleaning fluids.

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

## Cleaning the lens

Use a soft 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.

## Update software

The latest software of the projector can be found on [www.philips.com/support](http://www.philips.com/support) for you to get the best features and support from the projector.

Before you update the software of the projector, check the current software version:



- When the projector is turned on, press  on the projector to access the settings menu then navigate to *SW Version*.

### CAUTION!



Do not turn off the projector or remove the USB flash drive during the update.



## Update software through USB


- 1 Check the latest software version on [www.philips.com/support](http://www.philips.com/support). Find your product (model number: PPX320/321/322), and locate 'Software and drivers'.
- 2 Download the software into the USB flash drive. Unzip the downloaded software file and save it in the root directory of the USB flash drive.
  - After unzipping, find the file named "MERGE\_V56\_DLP.bin" and only copy that file to the USB flash drive.
- 3 Connect the USB flash drive to the USB port on the projector.
  - Recommend to use an external power when connecting a USB flash drive.
- 4 Turn on the projector with external power. Press  to access settings menu, and navigate to select *Soft. Update*, then press  to start update process.
- 5 Follow the on-screen instructions to complete the update.

# Troubleshooting

## Power cycling

If a problem occurs that cannot be corrected with the instructions in this user manual, follow the steps given here.

- 1 Turn the projector off using .
- 2 Wait at least ten seconds.
- 3 Turn the projector on again using .
- 4 If the problem persists, please contact our technical service centre or your dealer.

Problems	Solutions
The projector cannot be turned on.	<ul style="list-style-type: none"><li>• Disconnect and reconnect the power cable, and try to turn the projector on again.</li><li>• Low battery power. Connect the projector to an external power supply.</li></ul>
The projection screen does not show images.	<ul style="list-style-type: none"><li>• You need to connect the projector to an HDMI device or USB-C device, so that the projection screen can show images (<b>see Connect, page 6</b>).</li><li>• Check if the video output of the external device is turned on.</li></ul>
The projector is charged slowly.	<ul style="list-style-type: none"><li>• When powered on, the external power will be used first to run the projector and unused power will charge the battery.</li><li>• For faster charging, charge while the projector is powered off.</li></ul>
The projector cannot be turned off.	<ul style="list-style-type: none"><li>• Press and hold  longer than ten seconds. If this does not work, disconnect the power cable.</li></ul>
No image from the external HDMI device.	<ul style="list-style-type: none"><li>• Disconnect the HDMI cable or switch off the HDMI device.</li><li>• Wait <b>three</b> seconds.</li><li>• Reconnect the HDMI cable or switch on the HDMI device again.</li></ul>
No sound from the external connected device.	<ul style="list-style-type: none"><li>• Check the cables to the external device.</li><li>• Check that the sound is activated on the external device.</li><li>• Only the original cables from the device manufacturer may function.</li></ul>
No sound from external HDMI output device.	<ul style="list-style-type: none"><li>• On the HDMI output device, set the audio setting to Multichannel (Raw data) &amp; Stereo (PCM).</li></ul>
No sound when you connect your computer via HDMI cable.	<ul style="list-style-type: none"><li>• Check that the sound is activated on the computer.</li></ul>
The projector turns itself off.	<ul style="list-style-type: none"><li>• Low battery power.</li><li>• When the projector is running for a long period of time, the surface becomes hot.</li><li>• Check that the power cable is connected correctly.</li></ul>
The temperature of the projector's surface is warm.	<ul style="list-style-type: none"><li>• For this projector it is normal to generate moderate heat during operation.</li></ul>
What to do if the projector does not work when connecting to a notebook PC?	<ul style="list-style-type: none"><li>• Check that the HDMI cable is plugged in correctly.</li><li>• Make sure that the notebook PC has been switched to projector display.</li></ul>

# 7 Appendix

## Package content

PicoPix Micro projector, USB cable, Quick Start Guide

## Technical data

### Technology/optical

Display technology .....	DLP
Light source .....	OSRAM LED
Resolution .....	854 x 480 pixel
Resolution supported .....	1920 x 1080 pixel
LED lifetime .....	last over 20,000 hours
Contrast ratio .....	600:1
Aspect ratio .....	16:9
Throw ratio .....	1.2:1
Brightness mode.....	normal/Eco
Screen size (diagonal).....	10" to 65"
Screen distance.....	80 cm - 200 cm
Focus adjustment.....	manual
Digital zoom .....	yes
Projection modes .....	front, back, ceiling, back ceiling

### Sound

Internal Speaker.....	3 W
-----------------------	-----

### Connection

USB (on the projector).....	power only
USB (on the supplied USB cable).....	Software update only
Mini HDMI .....	x1
Analog audio output (3.5mm).....	x1

### Power source

Power source .....	micro USB port (DC 5V, 2.4A)
Built-in battery .....	3000mAh
.....	last up to 3 hours

### Product details

Dimensions (W × D × H).....	76 x 74 x 34 mm
.....	2.99 x 2.91 x 1.34 inches
Weight .....	215 g / 0.47 lbs
Operating temperature.....	5 °C - 35 °C
Storage temperature .....	< 60 °C

## CE statement

- The product shall only be connected to a USB interface of version USB 2.0 or higher.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The operating temperature of the EUT can't exceed 35°C and shouldn't be lower than 5°C.
- The plug is considered as disconnect device of adapter.



The Declaration of Compliance can be consulted on the site [www.philips.com](http://www.philips.com).

## FCC statement

### 15.19 Labeling requirements.

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.

### 15.21 Information to the user.

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

### 15.105 Information to user.

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.

FCC ID: 2ASRT-PPX320/321/322

## 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.

## Other notice

Preservation of the environment as part of a sustainable development plan is an essential concern of Screeneo Innovation SA. The desire of Screeneo Innovation SA is to operate systems respecting the environment and consequently it has decided to integrate environmental performances in the life cycle of these products, from manufacturing to commissioning use and elimination.



**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 symbol 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 reuse 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 recycled or dispose of it in the non-recyclable waste, depending on the requirements in your country.

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