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PicoPix

PPX 4150



EN User Manual

PHILIPS

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Dear Customer

Thank you for purchasing our Pocket Projector.
We hope you enjoy your device and its many functions!

About this User Manual

With the installation guide on the following pages, you can start using your device 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 your device. The manufacturer accepts no liability if these instructions are not followed.

Symbols Used

Notice



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. This damage can result from improper handling.

DANGER!

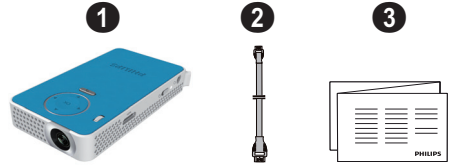


Danger to Persons!

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

What's in the Box

- 1 – PicoPix Projector
- 2 – HDMI to mini HDMI cable
- 3 – Quick Start Guide



Product Highlights

Connecting to devices with HDMI output

With the HDMI to mini HDMI cable you can connect the projector to a computer or laptop (see also Connecting to Devices with HDMI Output, page 8).

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 unit is for indoor use only. 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. Arrange for your device to be investigated by a technical service centre. 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.

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 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

Do not try to replace the battery yourself.

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 an 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.

Repairs

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

Find details of authorised service centres on the warranty card.

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

2 Overview

Top of the Device

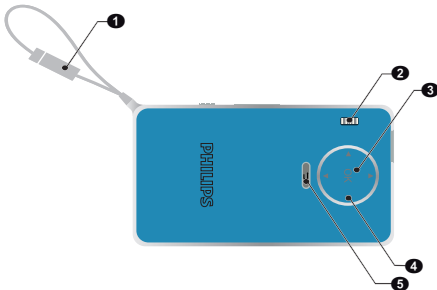
- ❶ – USB cable
USB connection for a computer / port for power supply
USB connection for a USB storage medium
- ❷ – Focus wheel for image sharpness.

Notice



Note that the distance to the projection surface must be a minimum of 0.3 meters and a maximum of 2.1 meters. If the Pocket Projector is located outside of this range, it may not be possible to focus the image. Turn the focus wheel carefully so as to avoid damaging the lens.

- ❸ – **OK** key
OK – Confirm entry / start, stop video/music playback or slideshow.
- ❹ – Navigation keys
▲/▼ – Navigating / during music playback select previous, next title when image display is switched off / during video/picture playback wake Quick setting bar.
◀/▶ – Navigating / during music playback: adjust volume level / during video playback start forward or backward / during picture playback select previous, next picture.
- ❺ – **Back** keys
↶ – One menu step back, one directory level back / cancelling a function



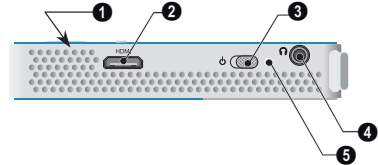
Side View

- ❶ – Loudspeaker (on the other side)
- ❷ – **HDMI** – HDMI port for a playback device (with adapter cable)
- ❸ – ⏻ – On/Off switch
- ❹ – 🎧 – Audio output – headphone connection or connection for external speakers
- ❺ – Battery status monitor

Charge indicator with connected power supply:

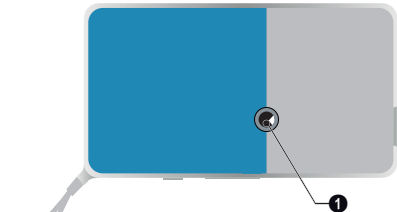
Red: Charging battery

Green: battery is fully charged



Bottom of the Device

- ❶ – Tripod socket



Overview of the Menu Functions

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

Symbols in the Statusbar

The charge level of the battery is displayed on the top right of the screen. When the icon is red, recharge the battery.

3 Initial Operation

Setting up the Device

A tripod accessory is available to elevate the device, see the paragraph "Accessories" page 15.

Connect Power Supply / Charge Battery

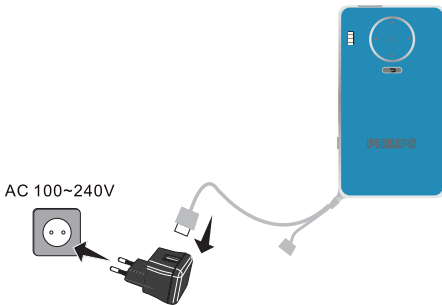
CAUTION!



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 Connect the USB plug to a computer, to charge the battery.
Alternatively you may connect the USB plug to the power adapter (not included), we recommend using the accessory PPA6200. Charge time is faster for to charge 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 0.3 meters and a maximum of 2.1 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 .

Notice



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 Press .
- 2 Select with / **Language**.
- 3 Confirm with .
- 4 Select the desired language with /.
- 5 Confirm with .
- 6 Exit with .

4 Connexion

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

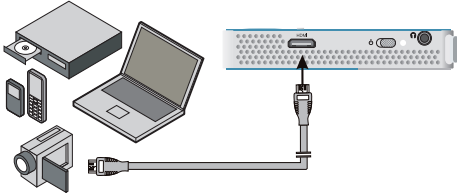
Cables available as accessories

Mini Display port cable (PPA1270 / 253520069)


MHL cable (PPA1240 / 253520048)





Connecting to Devices with HDMI Output

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



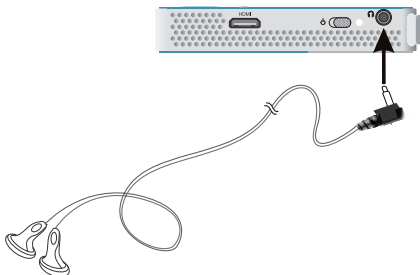
- 1 Connect the HDMI cable to the projector's HDMI socket.
- 2 Connect the cable to the mini-HDMI socket of the playback device.
- 3 Switch the device on using the on/off switch on the side.
- 4 After the initial screen the connection is automatically activated.

For exit the function, press .

During playback you can access different settings (volume, smart settings, contrast, brightness, saturation) use / to select the desired setting and / to finalize your settings.

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 + functions

Functions are available for you to use your projector as a pocket flashlight, emitting a flash, SOS or warning light.

CAUTION!






These functions use a lot of energy, make sure your battery is charged before using them.

The SOS Light can not be considered as an emergency beacon.



Flashlight



Allows to use the Pocket Projector as a flashlight.

- 1 Switch the device on using the on/off on the side.
- 2 After the initial screen, press .
- 3 Use the navigation keys to select **Flashlight**.
- 4 Confirm with .
- 5 The flashlight is activated.
- 6 For exit the function, press .




or

- 1 Switch the device on using the on/off on the side.
- 2 After the initial screen the main menu appears.
- 3 Pressing the  key for 2 seconds to activate the flashlight.
- 4 Disable the flashlight as soon as the  key is release.

SOS Light






Your Pocket Projector is equipped with an SOS Light function. The flashes are issued according to the rule Morse 3 short, 3 long, 3 short. Your equipment can not be considered as approved rescue beacon.

- 1 Switch the device on using the on/off on the side.
- 2 After the initial screen, press .
- 3 Use the navigation keys to select **SOS Light**.
- 4 Confirm with .
- 5 The SOS Light is activated.
- 6 For exit the function, press .

Warning Light



Your Pocket Projector can emit a red or orange flash. This flash can be seen more than 50 meters.

- 1 Switch the device on using the on/off on the side.
- 2 After the initial screen, press .
- 3 Use the navigation keys to select **Warning Light**.
- 4 Confirm with .
- 5 The Warning light is activated.
- 6 For exit the function, press .

6 Settings

- 1 Switch the device on using the on/off switch on the side.
- 2 After the initial screen, press **OK**.
- 3 Use **▲/▼** to select from the following settings.
- 4 Confirm with **OK**.
- 5 Select or modify the settings using **OK**, **▲/▼/◀/▶**.
- 6 Confirm with **OK**.

The **↶** key takes you one step back in the menu.

Overview of the Menu Functions

Image settings

Fit Screen – Convert videos and images to 4:3 or 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 reflected horizontally.

Rear ceiling – The device is located behind the projection surface, hanging from the ceiling in an upside-down position; the image is rotated through 180 degrees and reflected horizontally.

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

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

Brightness – Adjust brightness

Contrast – Adjust contrast

Saturation – Adjust 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

Power Save

Brightness mode

Optimal: the brightness according to your settings.

ECO mode: this function reduces the light output in order to increase the operating time for the built-in battery. When operating from the power supply, the energy saving mode is always deactivated in order to ensure the best-possible image display.

Language – Select the desired language for the menu.

Maintenance

Reset settings – Reset settings to factory defaults.

Information – Device name / Model / Firmware version

7 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 turns off. Connect the device with USB cable on an USB port.
- When the battery does not have sufficient capacity, the battery symbol in the display becomes 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 behaves as follows:
 - 1 The fan turns to maximum level.
 - 2 At maximum level of brightness the overheat symbol appears in the status bar and the device turns automatically to minimum level of brightness.
 - 3 At minimal level of brightness the overheat symbol shows for three seconds in the middle of the screen. Then the device turns off automatically.

After the device has cooled down, you can continue playback.
- 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 Connect Power Supply / Charge Battery, page 7). The device behaves as follows:

	Device off	Device on
Connect to a computer	The indicator light on the side of the device turns red. Slow charging. When charging is complete the indicator light turns green.	The indicator light on the side of the device turns red. Middle charging.
Connect to the power adapter	The indicator light on the side of the device turns red. Fast charging When charging is complete the indicator light turns green.	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 off

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

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 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 (see also Symbols in the Statusbar, page 6). The device behaves as follows:

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

After the device has cooled down, you can continue playback.

Update Firmware with USB stick

Notice



Connect for the duration of the firmware update the power adapter (see also Connect Power Supply / Charge Battery, page 7).



- 1 Format the memory card in the file system FAT16 or FAT32.

DANGER!



All Data will be Deleted!

This procedure erases all your data that is stored on the memory card.

- 2 Copy the file data of last firmware to root directory of USB stick (Firmware name is MSTFLASH).
- 3 Make sure your device is turned off.
- 4 Insert the USB stick to the device.
- 5 Press  and simultaneously switch the device ON.
- 6 After that device is ON, release the .
- 7 After around 3 minutes, the firmware update is now completed and the device restart.

DANGER!



Inserting an USB stick!

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


Power!

Do not unplug the power adapter during the firmware update.

Notice



If an error occurs during the firmware update process retry the procedure or contact your dealer.





- 8 Check firmware version in the information page of the device. Press  -> Maintenance -> enter in Information menu.

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">• Check the sound level in the menu Extras / Sound settings / Volume menu, adjust the volume with the / / /  key.
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 computer's 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
Only the initial screen appears and not the image from the connected computer	<ul style="list-style-type: none">• Please make sure the HDMI cable can work normally.• Check that HDMI cable is correctly connect to computer's HDMI interface.• Check if the resolution of the computer is set to 640x360.
Device switches turns off	<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, see also symbols in the status bar. The device automatically turns off when it gets too hot.• When the battery does not have sufficient capacity, the device turns off. Connect the device to the power supply.
The device is connected to the power supply and switches to stand-by mode	<ul style="list-style-type: none">• The battery is in deep discharge. The device can be turned on and is ready to use after approximately five minutes of charging time (see also Battery deep discharge, page 11).

Problems	Solutions
<p>Devices changes from maximum level of brightness to minimum level of brightness when the device is connected over USB to play videos.</p>	<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.
<p>Bad image or color quality when connecting with HDMI</p>	<ul style="list-style-type: none"> • Use the supplied HDMI cable (PPA1290). Third-party cables may cause signal distortions.

8 Appendix

Technical Data

Dimensions (L × H × W).....	97 x 17 x 54 mm
Weight.....	120 g
Recommended Ambient.....	5–35 °C
Relative Humidity.....	15–85% (non-condensing)
Video connection.....	Mini-HDMI socket
Headphone connection.....	Stereo - jack plug: 3,5 mm
Internal speaker.....	mono 1 W
USB connection max. power.....	5V, 220mA

Technology / optical

Display technology.....	nHD 0,2" DLP
Light source.....	RGB LED
Resolution.....	640 x 360 Pixel
Supported Resolutions.....	VGA/SVGA/WVGA XGA/WXGA/FULL HD
Brightness (Bright Mode).....	up to 50 lumen
Contrast ratio.....	1300:1
Projected image size.....	10–60 inch
Screen distance.....	0,35 m up to 2.12 m
Focus.....	Manual
Focus length.....	10.6 mm

Built-in rechargeable battery

Battery type.....	LiPol
Capacity.....	1800 mAh 3.7V
Charging time.....	3 h
Operating time.....	65 min
Operating time (ECO mode).....	up to 2h
Manufacturer.....	GREAT POWER BATTERY CO.,LTD

Accessories

Following accessories are available for your device:

MHL cable.....	PPA1240 / 253520048
Mini Display port cable.....	PPA1270 / 253520069
Power adaptor.....	PPA6200EU / 253456003 PPA6200UK / 253461710 PPA6200US / 253495638

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



The CE marking certifies that the product meets the main requirements of the European Parliament and Council directives 1999/5/CE, 2006/95/CE, 2004/108/CE and 2009/125/CE on information technology equipment, regarding safety and health of users and regarding electromagnetic interference.

The declaration of compliance can be consulted on the site www.picopix.philips.com.

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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.

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

For Mexico only.

PROYECTOR DE BOLSILLO (PicoPix)
Alimentación: 100 – 240V ~ 50/60Hz 1A
Sal: 5 Vcc/2 A
Projector: 5 Vcc/2 A

Importador:
P&F Mexicana, SA de C.V.
AV. La Palma No 6
Col. San Fernando la Herrudera
Huixquilucan, Edo. de Mexico CP 52787
Tel: 5269 9000

HECHO EN: China

**LEA CUIDADOSAMENTE ESTE INSTRUC-
TIVO ANTES DE USAR SU APARATO.**



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

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