

PowerKiss Wire-free Charging User Guide



PowerKiss User Guide

Version 2.0 (ZM1003)

© PowerKiss 2011

PowerKiss User Guide

Thank you for choosing PowerKiss. PowerKiss technology provides a simple, efficient and user-friendly way to keep your dear devices charged.

With PowerKiss, you represent state-of-the-art technology and design. Imagine getting rid of low batteries and the annoying, tangled wires from tabletops at the same time! Step into the future with us.

Yours,

A handwritten signature in black ink, appearing to read 'Maija Itkonen', with a long horizontal stroke extending to the right.

Maija Itkonen, CEO of PowerKiss

Contents

| | |
|---|----|
| PowerKiss wire-free charging | 5 |
| Ring | 5 |
| Heart | 5 |
| How to use PowerKiss wire-free charging | 6 |
| STEP I - Attach the Ring | 6 |
| STEP II - Place Ring on the Hotspot | 7 |
| STEP III - Red means charging | 8 |
| How to choose the right Ring for your device | 9 |
| MicroUSB Ring | 9 |
| Nokia Ring | 9 |
| iRing | 9 |
| Ring and Hotspot indication lights | 10 |
| Troubleshooting | 11 |
| 1. My device does not start to charge | 11 |
| 2. My device stops charging | 13 |
| Useful things to know | 15 |
| Safety instructions | 16 |
| 1. Safety distances | 16 |
| 2. General usage instructions | 17 |
| 3. General safety instructions | 18 |
| Technical Specifications | 19 |
| The Heart | 19 |
| The Ring | 19 |
| Official power supplies | 19 |
| Regulatory Compliance Information | 20 |
| FCC Compliance Statement (United States) | 20 |
| EU declaration of conformity | 20 |
| Limited manufacturer's warranty for PowerKiss devices | 21 |
| Correct disposal of this product | 23 |

PowerKiss wire-free charging

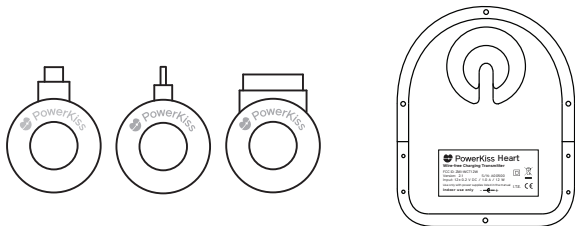
The essence of wire-free charging is the pairing of Heart and Ring. The Heart is the transmitter and the Ring is the receiver and together they enable wire-free charging on almost any surface.

Ring

The Ring is a small accessory that is plugged into handheld devices, such as mobile phones or mp3-players. As soon as the Ring is plugged in, the device is ready to be a part of a wire-free energy transaction.

Heart

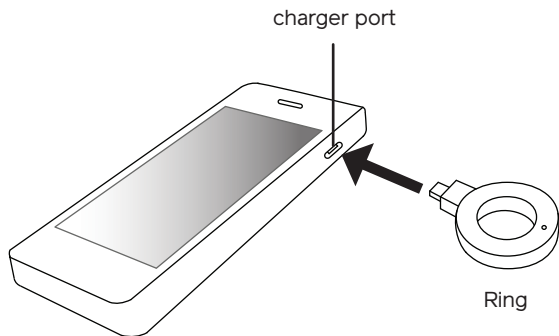
To turn a surface into a wire-free charging platform it first needs to be given a Heart. Like most, this Heart is also hidden except for Hotspot to indicate that it is ready to charge a mobile device wearing a Ring. Whenever the device with Ring is on this Hotspot, the wire-free charging begins.



How to use PowerKiss wire-free charging

STEP I - Attach the Ring

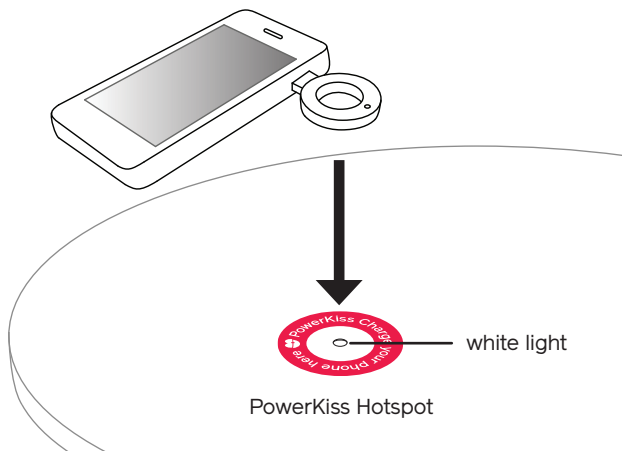
Connect the Ring to your electronic device through the charger connector port.



- There are different Rings, please confirm that you are using the right model-specific Ring
- Please confirm that the port you are using for charging is power-enabled, some USB ports do not transfer power
- The devices without a PowerKiss Ring will not charge on the charging area

STEP II - Place Ring on the Hotspot

Place your device down on the charging area so that the Ring is inside the PowerKiss Hotspot. The indication light of the Hotspot should be visible through the hole of the Ring.

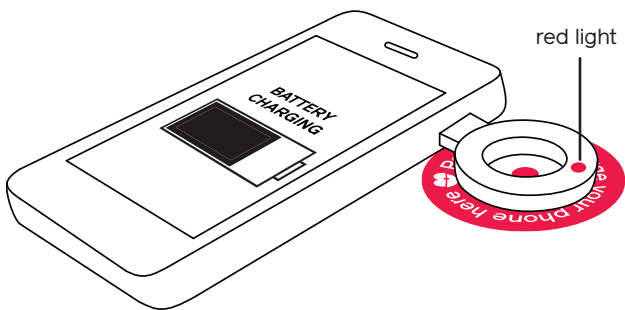


- The indication light of the Hotspot should be white before placing the device to charge, if not, please wait for a few seconds for the light to change
- The installations of PowerKiss system might vary

STEP III - Red means charging

As the Heart inside the furniture recognizes the Ring, the Hotspot's indication light turns from white to red. The charging starts as a red light appears also on the Ring.

When the battery is detected to be full, the charging ends. In this situation, the indication light on the Hotspot turns to green and the light on the Ring goes out. In some cases the light remains red if the device is drawing maintenance power.



- The red light on the Ring indicates ongoing charging and the red indication light on the charging area indicates that the Ring has been recognized by the Hotspot (placed correctly)

How to choose the right Ring for your device

MicroUSB Ring



- High variety of devices using micro USB connector for charging (mostly smart phones), such as Nokia, Samsung, LG, Sony Ericsson, HTC, BlackBerry and many others
- Please confirm that the USB port you are using for the charging is power-enabled, some USB ports do not transfer power



Nokia Ring

- High variety of Nokia phones with proprietary Nokia power connector



iRing

- Proprietary Ring for Apple devices with Apple connector, such as iPhones & iPods

• Check powerkiss.com for the latest information about compatible devices

Ring and Hotspot indication lights

| Hotspot | Ring | Meaning |
|--------------|----------------------|---|
| White light | No light | Charging area ready for use |
| Red light | No light | Ring placed correctly on charging area, wait for red light to light on the Ring as a sign of charging |
| Red light | Red light | Device charging |
| Green light | Red light / no light | Charging complete |
| Yellow light | No light | Charging interrupted |

Troubleshooting

1. My device does not start to charge

Please, check the indicator lights on Ring and Hotspot

| Hotspot | Ring | Action |
|--------------------------|----------|---|
| No light | No light | Hotspot is not active, please, check that the Heart in the table is plugged correctly into a power supply |
| White light | No light | The device is not aligned properly, please follow the instructions in section How to use PowerKiss wire-free charging |
| Red light | No light | Ring placed correctly on charging area, wait for red light to light on the Ring as a sign of charging |
| Yellow light (case 1) | No light | Check the device, if the battery is full, the charging will not start. Please, remove the device from the Hotspot |

| Hotspot | Ring | Action |
|--------------------------|----------|---|
| Yellow light (case 2) | No light | Check your device, if the battery is NOT full, please confirm that you have inserted the right model-specific Ring to your device, as instructed in the section "How to choose the right Ring for your device" |
| Yellow light (case 3) | No light | Check your device, if the battery is NOT full and you have inserted the right model-specific Ring into your device, an interruption in the charging has occurred. Please, remove the device from the Hotspot, wait for the white light to appear and re-align the device as instructed in section How to use PowerKiss wire-free charging |

- If the problem persists, try to re-boot your device as instructed by the manufacturer of your device
- If your device's battery is completely dead and not been used for a long period of time, there is a possibility that it should be charged with its specific charger for initial charge

2. My device stops charging

Please, check the indicator lights on Ring and Hotspot

| Hotspot | Ring | Action |
|--------------|-------------------------|---|
| Green light | Red light / no light | Check your device, if the battery is full, please, remove the device from the Hotspot |
| Green light | No light | Check your device, if the battery is NOT full, please, remove the device from the Hotspot. Wait for white light to appear on the Hotspot and re-align the device as instructed in section How to use PowerKiss wire-free charging |
| Yellow light | No light | An interruption in the charging has occurred. Please, remove the device from the Hotspot, wait for white light to appear and re-align the device as instructed in section How to use PowerKiss wire-free charging |

- In some cases, the device's internal features may have an effect on the wire-free charging, thus causing breaks in the charging. These features are dependent on the usage rate and age of the particular device
- If you have constant challenges with a particular device that should be supported by the PowerKiss system, please, contact support@powerkiss.com

Useful things to know

- The electromagnetic fields emitted by PowerKiss wire-free charging do not alter or damage the information written on magnetic stripes of credit or similar cards
- To ensure proper charging, the Ring should not be higher than 10mm above the charging area (from surface of the furniture to bottom of the Ring) during the charging process
- The rate of charging may vary and is dependent on the individual features of the device and its battery, such as rate of usage and age. To speed up the charging process, please switch off all other applications on the device that might require power to operate, such as Wi-Fi search, Bluetooth and active display
- Confirm that there are no metal objects or objects containing highly magnetic parts on the charging area at any time, they disturb the power transaction and might affect the operations of the PowerKiss system and the device being charged
- The device can be used normally during the charging process

Safety instructions



When using an electrical device, basic precautions should always be followed, including the following instructions

1. Safety distances

- Maintain at least 25cm vertical and 20cm horizontal separation between PowerKiss wire-free charging area and user's body when using the wire-free charging
- Keep medical appliances, such as pacemakers, hearing aids or other such devices, at least 30cm away from the charging area at any times
- Keep metal objects or objects containing highly magnetic parts at least 15cm away from the charging area at any times

2. General usage instructions

- Use PowerKiss products only as instructed in official PowerKiss manuals
- Use PowerKiss Hearts only with official power supplies and only as instructed in technical specifications
- PowerKiss system emits electromagnetic fields that may interfere in some situations with applications and external accessories using highly sensitive magnetic or radio frequency transmitters. If you confront problems using these applications during wire-free charging, please, take the device from the charging area for the time of the use
- It is normal for the Ring to become warm during the charging process, use caution when handling the Ring immediately after or during the charging process
- Do not use PowerKiss wire-free charging for charging damaged or otherwise altered devices
- Do not use damaged or otherwise altered PowerKiss products
- Close supervision is necessary when PowerKiss devices are used by or near children or disabled persons

3. General safety instructions

- Do not disassemble or alter in any ways PowerKiss devices due to a risk of electric shock
- Do not put any stickers or other additional labels or accessories on the Ring
- Do not place the Ring into water or temperature above 40°C
- Your PowerKiss Heart emits electromagnetic fields that may interfere with unshielded or improperly shielded electronic equipment, such as pacemakers, hearing aids, medical devices, and other electronic devices if they are within 30cm from the charging area. If you have any reason to suspect that your PowerKiss Heart is interfering with another device, unplug the PowerKiss Heart from the power source immediately and contact the manufacturer of the other device for further guidance
- PowerKiss devices are complex electronic devices—protect them from impacts and rough handling to avoid serious damage

Technical Specifications

The Heart

Dimensions (LxWxH):

- 163mm x 132mm x 24mm

Power consumption:

- Charging 12W (max)
- Standby 240mW

Charging area/Hotspot size:

- Width 60mm
- Height 15mm

The Ring

Dimensions (LxWxH):

- 43-46mm x 34mm x 7.5mm

Power output:

- 5W (max)

Compatibility:

- Nokia 2mm
- Apple
- MicroUSB

Official power supplies

Use only power supplies listed below with Hearts.

With one Heart (single):

- RS SAW18-12.0-1500 (only within CE or FCC certified areas)
- or
- PhiHong PSM36W-120TW (only within areas where CB certification or FCC is required)

With two Hearts (double, power divided):

- Mascot 2720 0000 40 (only within CE certified area)
- or
- PhiHong PSM36W-120TW (only within areas where CB or FCC certification is required)

Regulatory Compliance Information

FCC Compliance Statement (United States)

This device complies with Part 15 of the Federal Communications Commission (FCC) Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation. See instructions below if radio or television interference is suspected.

FCC Compliance Notice

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 manufacturer's instructions, may cause interference harmful to radio or television reception or radio communication.

There is no guarantee, however, that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception or radio communication, 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 until the interference stops.
- Increase the separation between the equipment and the receiver.
- Connect the equipment an outlet that is on a different circuit from the receiver.
- Consult the dealer or an experienced radio or TV technician for help.

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

EU declaration of conformity

Powerkiss Ltd hereby declares that the products PowerKiss Ring (model 11RXX) and PowerKiss Heart (model 2.1) have been designed and manufactured in accordance with the following standards: EN 61000-6-3 (incl. EN 55022), EN 61000-3-2, EN 61000-6-1 (incl. EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5), IEC 61000-4-6, EN 61000-4-11, EN 62233 and EN 60950, and conforms to: EMC Directive 2004/108/EC, Health and safety Directive 2004/40/EC, Low Voltage Directive "LVD" 2006/95/EC, Hazardous substances "RoHS" Directive 2002/95/EC, Waste Electrical and Electronic Equipment Directive 2002/96/EC, CE marking Directive 93/68/EEC, Eco-design Directive 2005/32/EC

Betonimiehenkuja 5
FIN-02150 ESPOO
Finland
23.07.2010



Majja Itkonen, CEO

Limited manufacturer's warranty for PowerKiss devices

This Limited Manufacturer's Warranty for PowerKiss devices sold in the European Union, Iceland, Norway, Switzerland, and Turkey is valid as of October, 2011.

MANUFACTURER'S LIMITED WARRANTY

NOTE! This Limited Warranty does not affect your legal (statutory) rights under your applicable national laws relating to the sale of consumer products.

PowerKiss Ltd provides this Limited Warranty to you who have purchased the PowerKiss product(s) included in the sales package ("Product").

PowerKiss Ltd sells its products with the intent that they are free of defects in manufacture and workmanship for twelve (12) months from the date of original purchase by the first end-user.

PowerKiss warrants that its products will be free of defects in material and workmanship under normal use and service defined in user guide. This warranty extends only to consumers and does not extend to Retailers.

This warranty does not cover normal tear and wear, damage caused by misuse or abuse; accident; indirect accident; the attachment of any unauthorized accessory; usage otherwise than intended to be used; alteration to the product; improper installation; unauthorized service, repairs or modifications; improper use of electrical/power supply; loss of power; dropped product; malfunction or damage of an operating part from failure to provide manufacturer's recommended maintenance; transportation damage; theft; neglect; vandalism; or environmental out of specs conditions; loss of use during the period the product is at a repair facility or otherwise awaiting parts or repair; or any other conditions whatsoever that are beyond the control of PowerKiss Ltd.

This Limited Warranty is only valid and enforceable in the country where you have purchased the Product provided that PowerKiss has intended the Product for sale in that country. However, if you have purchased the Product in a member state of the European Union, Iceland, Norway, Switzerland or Turkey and PowerKiss originally intended the Product for sale in one of these countries, this Limited Warranty is valid and enforceable in all of these above listed countries.

How to get warranty service

If you wish to make a claim under this Limited Warranty, please return your Product to PowerKiss Ltd. When making a claim under this Limited Warranty you will be required to provide:

- a) the Product
- b) the original proof of purchase, which clearly indicates the name and address of the seller, the date and place of purchase, the product type and serial number, when applicable.

Other important notices

All parts of the Product or other equipment that PowerKiss has replaced shall become the property of PowerKiss. If the Product is found not to be covered by the terms and conditions of this Limited Warranty, PowerKiss reserves the right to charge a handling fee.

Limitation of PowerKiss' liability

This Limited Warranty is your sole and exclusive remedy against PowerKiss and PowerKiss's sole and exclusive liability in respect of defects in your Product. This Limited Warranty replaces all other PowerKiss warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise, including, without limitation, and where permitted by applicable law, any implied conditions, warranties or other terms as to satisfactory quality or fitness for purpose. However, this Limited Warranty shall neither exclude nor limit:

- i) any of your legal (statutory) rights under the applicable national laws or
- ii) any of your rights against the seller of the Product.

To the extent permitted by applicable law(s) PowerKiss does not assume any liability for loss of or damage to or for any loss of profit, loss of use of Products or functionality loss of business, loss of contracts, loss of revenues or loss of anticipated savings, increased costs or expenses or for any indirect loss or damage, consequential loss or damage or special loss or damage.. To the extent permitted by applicable law, PowerKiss's liability shall be limited to the purchase value of the Product. The above limitations shall not apply in case of gross negligence or intentional misconduct of PowerKiss or in case of death or personal injury resulting from PowerKiss's proven negligence.

Correct disposal of this product



Waste Electrical & Electronic Equipment, applicable in the European Union and other European countries with separate collection systems.

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. power cables and adapters) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal. This EEE is compliant with RoHS. The package of the product is recyclable.

Design
and
technology

are matters
of Heart