



## Safety Guidelines & User Manual

### Basic safety

Please follow these suggestions and safeguards to decrease the chances of damage to your product, accessories, or any connected devices, and to lessen the risk of harm or injury, such as from fire, burns, or electric shock:

- ! Use the product for its intended purposes only.
- ! Do not open or take apart your product, adapter, or accessories.
- ! Do not crush, perforate, drop, throw, or try to deform your product, adapter, or accessories.
- ! Do not short external contacts or circuits, expose your product or adapter to open flames or lit substances, or dispose of them in fire, solvents, or water.
- ! Do not use the product or adapter if they aren't working properly or have been damaged, cracked, or dropped.
- ! Do not expose the product or adapter to water or other liquids.
- ! If the product or adapter gets wet, do not try to dry it using any household device such as an oven, microwave, or hair dryer.
- ! Do not twist, pinch, or tie the USB cable.
- ! This product is intended for use with a certified Class 2 limited power source rated: max load current 3A at 5V, 2.67A at 9V, 2.0A at 12V.
- ! The product and charger generate heat during normal operation. Avoid prolonged, direct, or indirect skin contact, since this may result in discomfort or burns.
- ! Some applications or prolonged usage may increase product temperature.
- ! If the product feels hot, discontinue use and close all applications or turn off the product until it cools.
- ! Ensure that the area around the product is adequately ventilated. Covering the product affects air flow, which can trap heat and redirect it back to the product. This may affect product performance, and poses a possible risk of fire or explosion, which could lead to serious bodily injuries or property damage.

## REGULATORY & COMPLIANCE INFORMATION

### FCC DECLARATION OF CONFORMANCE

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 the 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.

For more information, refer to the online help system on [Razer.com](http://Razer.com).

## FCC CAUTION

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

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

## Hearing Aid Compatibility Information (HAC)

Your phone is compliant with the FCC Hearing Aid Compatibility requirements.

The FCC has adopted HAC rules for digital wireless phones. These rules require certain phone to be tested and rated under the American National Standard Institute (**ANSI**) **C63.19-2011** hearing aid compatibility standards. The ANSI standard for hearing aid compatibility contains two types of ratings:

M-Ratings: Rating for less radio frequency interference to enable acoustic coupling with hearing aids.

T-Ratings: Rating for inductive coupling with hearing aids in Tele coil mode.

Not all phones have been rated, a phone is considered hearing aid compatible under FCC rules if it is rated M3 or M4 for acoustic coupling and T3 or T4 for inductive coupling. These ratings are given on a scale from one to four, where four is the most compatible.

Your phone meets the **M3/T4** level rating.

However, hearing aid compatibility ratings don't guarantee that interference to your hearing aids won't happen. Results will vary, depending on the level of immunity of your hearing device and the degree of your hearing loss. If your hearing device happens to be vulnerable to interference, you may not be able to use a rated phone successfully. Trying out the phone with your hearing device is the best way to evaluate it for your personal needs.

This phone has been tested and rated for use with hearing aids for some of the wireless technologies that it uses. However, there may be some newer wireless technologies used in this phone that have not been tested yet for use with hearing aids. It is important to try the different features of this phone thoroughly and in different locations, using your hearing aid or cochlear implant, to determine if you hear any interfering noise. Consult your service provider or the manufacturer of this phone for information on hearing aid compatibility. If you have questions about return or exchange policies, consult your service provider or phone retailer.

Hearing devices may also be rated. Your hearing device manufacturer or hearing health professional may help you find this rating.

For more information about FCC Hearing Aid Compatibility, please go to <http://www.fcc.gov/cgb/dro>.

## RF Exposure Information (SAR)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. SAR limits are 1.6 Watts per kilogram (over a volume containing a mass of 1 gram of tissue) in countries that follow the United States FCC limit, and 2.0 W/kg (averaged over 10 grams of tissue) in countries that follow the Council of the European Union limit. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

To reduce exposure to RF energy, use a hands-free accessory or other similar option to keep this device away from your head and body. Carry this device at least **15 mm** away from your body to ensure exposure levels remain at or below the as-tested levels. Choose the belt clips, holsters, or other similar body-worn accessories which do not contain metallic components to support operation in this manner. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified, and use such accessories should be avoided.

The highest FCC SAR values for the device are as follows:

|               |             |                 |
|---------------|-------------|-----------------|
| <b>(Head)</b> | <b>0.94</b> | <b>W/kg @1g</b> |
| <b>(Body)</b> | <b>1.12</b> | <b>W/kg @1g</b> |

The FCC has granted an Equipment Authorization for this device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this device is on file with the FCC and can be found under the Display Grant section of [www.fcc.gov/oet/ea/fccid](http://www.fcc.gov/oet/ea/fccid) after searching on **FCC ID: RWO-RZ350259**.

## INDUSTRY CANADA INFORMATION

This device complies with Industry Canada license-exempt 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.

### Avis d'industrie Canada

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."

## Industry Canada Class B Emission Compliance Statement

### Avis de conformité à la réglementation d'Industrie Canada

This Class B digital apparatus complies with Canadian **CAN ICES-3(B) / NMB-3(B)**.

Cet appareil numérique de la classe B est conforme à la norme **CAN ICES-3(B) / NMB-3(B)** du Canada.

The device for operation in the band 5150–5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

High-power radars are allocated as primary users (i.e. priority users) of the bands 5.25 to 5.35GHz and 5.65 to 5.85GHz and that these radars could cause interference and/or damage to LE-LAN devices.

Les utilisateurs devraient aussi être avisés que les utilisateurs de radars de haute puissance sont désignés utilisateurs principaux (c.-à-d., qu'ils ont la priorité) pour les bandes 5.25-5.35GHz et 5.65-5.85GHz et que ces radars pourraient causer du brouillage et/ou des dommages aux dispositifs.

## **RADIATION EXPOSURE STATEMENT:**

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure. Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. SAR limits are 1.6 Watts per kilogram (over a volume containing a mass of 1 gram of tissue) in countries that follow the United States FCC limit and 2.0 W/kg (averaged over 10 grams of tissue) in countries that follow the Council of the European Union limit. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands. To reduce exposure to RF energy, use a hands-free accessory or other similar option to keep this device away from your head and body. Carry this device at least 15 mm away from your body to ensure exposure levels remain at or below the as-tested levels. Choose the belt clips, holsters, or other similar body-worn accessories which do not contain metallic components to support operation in this manner. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified, and use such accessories should be avoided.

## **DÉCLARATION D'EXPOSITION AUX RADIATIONS:**

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les États-Unis et le Canada établies pour un environnement non contrôlé. Le produit est sûr pour un fonctionnement tel que décrit dans ce manuel. La réduction aux expositions RF peut être augmentée si l'appareil peut être conservé aussi loin que possible du corps de l'utilisateur ou que le dispositif est réglé sur la puissance de sortie la plus faible si une telle fonction est disponible. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 1.5 cm de distance entre la source de rayonnement et votre corps. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter, except tested built-in radios. The County Code Selection feature is disabled for products marketed in the US/ Canada. Cet appareil et son antenne ne doivent pas être situés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur, exception faites des radios intégrées qui ont été testées. La fonction de sélection de l'indicatif du pays est désactivée pour les produits commercialisés aux États-Unis et au Canada.



## Prevention of Hearing Loss



To prevent possible hearing damage, do not listen at high volume levels for long periods.

## RF Exposure Information (SAR)

This device has been tested and meets applicable limits for Radio Frequency (RF) exposure.

Specific Absorption Rate (SAR) refers to the rate at which the body absorbs RF energy. SAR limits are 1.6 Watts per kilogram (over a volume containing a mass of 1 gram of tissue) in countries that follow the United States FCC limit and 2.0 W/kg (averaged over 10 grams of tissue) in countries that follow the Council of the European Union limit. Tests for SAR are conducted using standard operating positions with the device transmitting at its highest certified power level in all tested frequency bands.

To reduce exposure to RF energy, use a hands-free accessory or other similar option to keep this device away from your head and body. Carry this device at least **5 mm** away from your body to ensure exposure levels remain at or below the as-tested levels. Choose the belt clips, holsters, or other similar body-worn accessories which do not contain metallic components to support operation in this manner. Cases with metal parts may change the RF performance of the device, including its compliance with RF exposure guidelines, in a manner that has not been tested or certified, and use such accessories should be avoided.

The highest CE SAR values for the device are as follows:

**(Head) 0.508 W/kg @10g**

**(Body) 1.493 W/kg @10g**

## STATEMENT OF COMPLIANCE WITH EU DIRECTIVE

Hereby, Razer Inc. (Europe), declares that this Razer Phone 2 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: [www.Razer.com/help](http://www.Razer.com/help)

DECLARATION DE CONFORMITE AVEC LES DIRECTIVES DE L'UNION EUROPEENNE

Par la presente Razer (Europe) declare que l'appareil Razer Phone 2 est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU.

Company: Razer (Europe) GmbH

Address: Winterhuder Weg 82, D-22085 Hamburg, Germany

E-mail: [compliance@razerzone.com](mailto:compliance@razerzone.com)

## 5GHz Restriction

The device for operation in the band 5150–5350 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

-Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont reserves uniquement pour une utilisation a l'interieur afin de reduire les risques de brouillage prejudiciable aux systemes de satellites mobiles utilisant les memes canaux.

|  |    |    |    |    |    |    |    |
|--|----|----|----|----|----|----|----|
|  | AT | BE | BG | HR | CY | CZ | DK |
|  | EE | FI | FR | DE | EL | HU | IE |
|  | IT | LV | LT | LU | MT | NL | PL |
|  | PT | RO | SK | SI | ES | SE | UK |

## RF Output table

### WWAN RF Power

| Mode | Bands                 | Max Power dbm | Antenna Gain (dBi) |
|------|-----------------------|---------------|--------------------|
| GSM  | GSM 850               | 32 ±1         | -2.9               |
|      | E-GSM 900             | 32 ±1         | -2.5               |
|      | DCS 1800              | 29 ±1         | 1.9                |
|      | PCS 1900              | 29.5 ±1       | 1.4                |
| UMTS | FDD I(1)              | 22.5 ±1       | 1.3                |
|      | FDD II(2)             | 21.5 ±1       | 1.4                |
|      | FDD III(3)            | 22.5 ±1       | 1.9                |
|      | FDD IV(4)             | 21 ±1         | 1.9                |
|      | FDD V(5)              | 22.5 ±1       | -2.9               |
|      | FDD VIII(8)           | 22.5 ±1       | -2.5               |
| LTE  | FDD 1: EU, JP, Korea  | 22 ±1         | 1.3                |
|      | FDD 2: US             | 21 ±1         | 1.4                |
|      | FDD 3: EU, TW, JP     | 21.5 ±1       | 1.9                |
|      | FDD 4: US             | 21 ±1         | 1.9                |
|      | FDD 5: US             | 23 ±1         | -2.9               |
|      | FDD 7: EU             | 23.5 ±1       | 0.9                |
|      | FDD 8: EU, JP         | 23 ±1         | -2.5               |
|      | FDD 12: US            | 23 ±1         | -3.7               |
|      | FDD 13: US            | 23 ±1         | -3.4               |
|      | FDD 14: US            | 23 ±1         | -3.7               |
|      | FDD 17: US            | 23 ±1         | -3.7               |
|      | FDD 18: JP            | 23.5          | -4.0               |
|      | FDD 19: JP            | 23.5          | -3.0               |
|      | FDD 20: EU            | 23 ±1         | -2.9               |
|      | FDD 26: US            | 23 ±1         | -2.9               |
|      | FDD 28: TW, JP        | 23 ±1         | -3.0               |
|      | FDD 30:               | 22.5 ±1       | 1.2                |
|      | FDD 71:               | 23 ±1         | -4.3               |
|      | TDD 38: US, EU, China | 23.5 ±1       | 0.6                |
|      | TDD 39:               | 23.5 ±1       | 1.1                |
|      | TDD 40: US, EU, China | 24 ±1         | 1.3                |
|      | TDD 41: US, JP        | 24.5±1        | 1.2                |
|      | FDD 66                | 21 ±1         | 1.9                |

**WLAN Antenna Gain**

|   |                           |          |              |          |
|---|---------------------------|----------|--------------|----------|
| 1 | Ant. Type                 | PIFA     | connector    |          |
|   | <b>Antenna Gain (dBi)</b> |          |              |          |
|   | 2400~2483.5MHz            | 1.4 dBi  | 5470~5725MHz | -0.2 dBi |
|   | 5150~5250MHz              | -3.6 dBi |              |          |
|   | 5250~5350MHz              | -2.5 dBi |              |          |
| 2 | Ant. Type                 | PIFA     | connector    |          |
|   | <b>Antenna Gain (dBi)</b> |          |              |          |
|   | 2400~2483.5MHz            | -1.7 dBi | 5470~5725MHz | 0.3 dBi  |
|   | 5150~5250MHz              | -0.9 dBi |              |          |
|   | 5250~5350MHz              | -0.8 dBi |              |          |

**WLAN RF Power**

| Frequency     | Max EIRP Power (dBm) |
|---------------|----------------------|
| 2412-2472 MHz | 19.6                 |
| 5180-5240 MHz | 18.59                |
| 5260-5320 MHz | 18.34                |
| 5500-5700 MHz | 19.58                |

**Bluetooth RF Power:**

| Frequency     | Max EIRP Power (dBm) |
|---------------|----------------------|
| 2402-2480 MHz | 11.4                 |

**Bluetooth Antenna Gain**

| BT Antenna Information |           |      |           |      |
|------------------------|-----------|------|-----------|------|
| 1                      | Ant. Type | PIFA | Peak Gain | 1.42 |

**USAGE RESTRICTIONS**

This **Razer Phone 2** device was developed and designed to comply with the various wireless and telecom agency requirements throughout the world. This ensures that the device do not cause any harm to Public Switching Telecommunication Networks (PSTN) and do not violate any power and frequency spectrum allocations on a country by country basis. This device was also designed to be compliant with regulatory agency limits for Electromagnetic Compatibility (EMC).

**IMPORTANT NOTICE FOR USE IN HEALTHCARE ENVIRONMENTS**

This **Razer Phone 2** device is not a medical device and is not listed under UL or IEC 60601 (or equivalent). This device should be kept at a certain distance to avoid harmful effects to patients or medical equipment.

**AVIATION USAGE RESTRICTIONS**

Certain restrictions apply to this device while onboard an aircraft. **Razer** encourages you to understand these restrictions to ensure the flight's safety and security.

AUSTRALIAN CONSUMER LAW COMPLIANCE

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Please refer to **Razer.com/warranty** for further details.

WEEE COMPLIANCE & DISPOSAL INFORMATION



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems) This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it 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 this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

E.Label of Regulatory Information:

for For Regulatory Information and Compliance mark (E.labels) about Countries TA Grant Number. Please refer to your device via the following step: **Settings > About > Regulatory Information**

NFC

NFC operates within the globally available and unlicensed radio frequency ISM band of **13.56** MHz. Most of the RF energy is concentrated in the allowed  $\pm 7$  kHz bandwidth range, the full spectral envelope may be as wide as 1.8 MHz when using ASK modulation.

|                         |                     |
|-------------------------|---------------------|
| Frequency Band          | 13.553 - 13.567 MHz |
| Modulation Type         | ASK                 |
| Lowest Ch. Freq. (MHz)  | 13.56               |
| Highest Ch. Freq. (MHz) | N/A                 |
| Channel Space (MHz)     | N/A                 |
| Total Channel Number    | 1                   |
| Supported Card Type     | A B F V             |
| FHSS Type               | N/A                 |
| Power (dBm)             | -3.87dBuA/m @ 10m   |
| Antenna Type            | Loop                |
| Antenna Gain (dBi)      | N/A                 |
| Antenna Beamwidth (°)   | N/A                 |

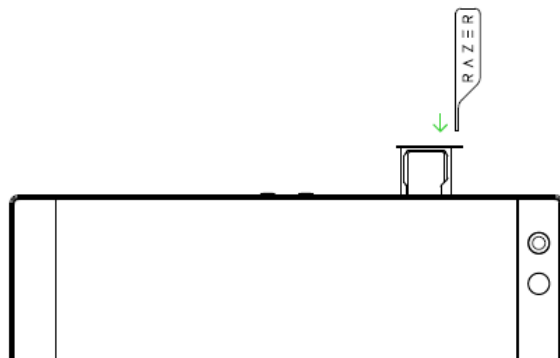
## Battery Caution Notice

Caution: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions

## SIM Installation

### GETTING STARTED

1. Insert your SIM eject pin. Place your SIM card in the tray that pops out.



2. If you have a microSD card, place it in its allocated slot.

