



PlayStation®Vita Testing Kit

Instruction Manual

PTEL-2004



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4-476-346-11(2)

WARNINGS

For customers in the U.S.A. and Canada

FCC and IC notice

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. This equipment has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

NOTE:

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.

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

If you have questions about this product, visit playstation.com/helpme.
You can also write to:
Sony Computer Entertainment America LLC
Consumer Services/Technical Support
PO Box 5888, San Mateo, CA 94402-0888 U.S.A.

Declaration of Conformity

Trade Name :	SONY
Model No. :	PTEL-2004
Responsible Party :	Sony Electronics Inc.
Address :	16535 Via Esprillo San Diego, CA 92127 U.S.A
Telephone No. :	858-942-2230

This device complies with Part 15 of the FCC Rules and Industry Canada's licence-exempt RSSs. 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.

Pour les utilisateurs aux États-Unis et au Canada

Déclaration de la FCC et de l'IC

Les connaissances scientifiques dont nous disposons n'ont mis en évidence aucun problème de santé associé à l'usage des appareils sans fil à faible puissance. Nous ne sommes cependant pas en mesure de prouver que ces appareils sans fil à faible puissance sont entièrement sans danger. Les appareils sans fil à faible puissance émettent une énergie fréquence radioélectrique (RF) très faible dans le spectre des micro-ondes lorsqu'ils sont utilisés. Alors qu'une dose élevée de RF peut avoir des effets sur la santé (en chauffant les tissus), l'exposition à de faibles RF qui ne produisent pas de chaleur n'a pas de mauvais effets connus sur la santé. De nombreuses études ont été menées sur les expositions aux RF faibles et n'ont découvert aucun effet biologique. Certaines études ont suggéré qu'il pouvait y avoir certains effets biologiques, mais ces résultats n'ont pas été confirmés par des recherches supplémentaires. Cet équipement a été testé et jugé conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles les radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC.

Ce transmetteur ne doit pas être utilisé conjointement ou placé avec tout autre transmetteur ou antenne.

Remarque :

Cette unité a été testée et il a été déterminé qu'elle se conforme aux normes stipulées par l'article 15 des règlements de la FCC pour un appareil numérique de catégorie B. Ces normes sont établies afin d'offrir une protection raisonnable contre toute possibilité de brouillage préjudiciable dans une installation résidentielle. Cette unité produit, utilise et peut émettre une énergie de radiofréquence, et si elle n'est pas installée et utilisée conformément aux instructions, pourrait causer un brouillage préjudiciable à la radiocommunication. Il est toutefois impossible de garantir qu'il n'y aura pas de brouillage préjudiciable dans une installation donnée. Si cette unité cause un brouillage préjudiciable à la réception radio ou télévisuelle, ce qui peut être déterminé en activant ou désactivant l'appareil, l'utilisateur est encouragé à tenter de corriger le brouillage en prenant l'une ou plusieurs des mesures proposées suivantes :

- Réorienter ou déplacer l'antenne de réception.
 - Eloigner l'unité du récepteur.
 - Connecter l'appareil à une prise sur un autre circuit que celui auquel le récepteur est connecté.
 - Demander de l'aide au détaillant ou à un technicien radio/télévision spécialisé.
- Aucun changement ou modification n'est permis sans avoir été approuvé par les parties responsables des réglementations qui sont en droit de refuser l'autorisation de l'utilisateur à utiliser ce produit.

Si vous avez des questions concernant ce produit, visitez playstation.com/helpme.

Vous pouvez également écrire à :
Sony Computer Entertainment America LLC
Consumer Services/Technical Support
PO Box 5888, San Mateo, CA 94402-0888 U.S.A.

Déclaration de Conformité

Nom commercial :	SONY
N° de modèle :	PTEL-2004
Partie responsable :	Sony Electronics Inc.
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N° de téléphone :	858-942-2230

Cet appareil est conforme à la section 15 des règlements de la FCC et aux CNR d'Industrie Canada exempts de licence. Son opération est sous réserve des deux conditions suivantes : (1) cet appareil ne peut pas causer de brouillage préjudiciable et (2) cet appareil doit accepter le brouillage préjudiciable reçu, y compris un brouillage qui pourrait causer son fonctionnement irrégulier.

For customers in Europe and Turkey



Where you see this symbol on any of our electrical products/packaging in Europe and Turkey, it means that at end of life the product/battery must be disposed of in accordance with any applicable laws or requirements for the separate disposal of electrical equipment/batteries.

This symbol may be used on batteries in combination with additional chemical symbols. The chemical symbols for mercury (Hg) or lead (Pb) will appear if the battery contains more than 0.0005% mercury or more than 0.004% lead.

Accordingly at end of life we will arrange for separate disposal of our loan equipment including without limitation development kits which remain at all times the property of Sony Computer Entertainment Europe. If you would like assistance with the disposal of any other electrical products which we have supplied to you for business use, we can arrange a take-back service on request. Please contact the Sony Computer Entertainment Europe Development Tools team for more information.

This product contains a battery which is permanently built-in for safety, performance or data integrity reasons. The battery should not need to be replaced during the lifetime of the product and should only be removed by skilled service personnel. To ensure the correct waste treatment of the battery, please dispose of this product as electrical waste.

The nameplate is located behind the product.

This equipment has been tested and found to comply with the limits set out in the R&TTE Directive using a connection cable shorter than 3 meters.



This product has been manufactured by or on behalf of Sony Computer Entertainment Inc., 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan.

Imported into Europe and Distributed by Sony Computer Entertainment Europe Ltd, 10 Great Marlborough Street, London, W1F 7LP, United Kingdom.

The Authorised Representative for issuing and holding Declarations of Conformity is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.

For customers in the United Kingdom

A molded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a 3AMP fuse approved by ASTA or BSI to BS1362, (i.e., marked with or must be used. If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.

Headphones

Adjust your headphone volume so that surrounding sounds can be heard. If you experience ringing or any discomfort in your ears, discontinue use of your headphones.

Radio waves

Radio waves may affect electronic equipment or medical devices (for example, pacemakers), which may cause malfunctions and possible injuries.

- If you use a pacemaker or other medical device, consult your physician or the manufacturer of your medical device before using the network features.
- Make sure that the testing kit is at least 6 inches (15 cm) away from pacemakers when using the network features. If you have any reason to suspect that interference is taking place, turn off your testing kit immediately.
- Do not use the network features in the following locations:
 - Areas where use of network features is prohibited, such as in hospitals. Abide by medical institution regulations when using the system on their premises.
 - Areas near fire alarms, automatic doors and other types of automated equipment.
- Be careful when using network features inside a car. Depending on the type of vehicle, there may be rare occasions where the system will affect the vehicle's electronic instruments.

Precautions

Safety

This product has been designed with the highest concern for safety. However, any electrical device, if used improperly, has the potential for causing fire, electrical shock or personal injury. To help ensure accident-free operation, follow these guidelines:

- Observe all warnings, precautions and instructions.
- Regularly inspect the AC adaptor, AC power cord and USB cable.
- If the testing kit is damaged, do not use it. Unplug the AC power cord from the electrical outlet and disconnect any other cables immediately.
- Stop use, unplug the AC power cord from the electrical outlet and disconnect any other cables immediately if the testing kit functions in an abnormal manner, produces unusual sounds or smells, or if it or the AC adaptor becomes too hot to touch.
- Do not handle damaged or leaking lithium-ion batteries.

Use and handling

- Do not use any AC adaptor, AC power cord, or USB cable other than those supplied with the testing kit. The AC adaptor, AC power cord, and USB cable provided with the testing kit are special equipment that can be used only with the testing kit. Do not use any other adaptor, cord, or cable with the testing kit.
- Do not allow water or small particles to get into the testing kit. If water or small particles get into the testing kit, immediately turn off the power, disconnect the AC power cord, and contact customer services. If you leave the testing kit connected to other equipment in this condition, it could cause equipment failure.
- Use an electrical outlet that is easily accessible, so the AC power cord can be unplugged quickly if the need arises.

• Depending on the conditions of use, the testing kit or AC adaptor may reach temperatures of 40 °C/104 °F or more. Do not touch the testing kit or AC adaptor for an extended period of time under these conditions. Extended contact under these conditions may cause low-temperature burns*.

* Low-temperature burns are burns that occur when the skin is in contact with objects of relatively low temperatures (40 °C or more/104 °F or more) for an extended period of time.

- Do not connect the AC power cord to a voltage transformer or inverter. Connecting the AC power cord to a voltage transformer for overseas travel or an inverter for use in an automobile may cause heat to build up in the AC adaptor and may cause burns or a malfunction.
- Do not place the testing kit close to items with a magnetic strip, such as credit cards. This testing kit has internal parts that use magnets, which may affect magnetic recording devices.

Use in other countries

Depending on the country, there are limitations on the use of certain types of radio waves. In some cases, use of the testing kit may lead to a fine or other penalty.

Using Wi-Fi access points

When connecting to the Internet using the Wi-Fi feature, the system automatically detects nearby access points. An access point that you are not authorized to use may be included among the detected devices. Only connect to a personal access point that you are authorized to use, or one that is available through a commercial Wi-Fi service. The user is responsible for all fees associated with Wi-Fi access.

Screen

The internal parts of the screen (touchscreen) are made of glass and may crack if subjected to excessive force.

When moisture condensation occurs

If the testing kit is brought directly from a cold location to a warm one, moisture may condense inside the testing kit and cause it to operate improperly. Should this occur, turn off and unplug the testing kit. Do not use the testing kit until the moisture evaporates (this may take several hours). If the testing kit does not operate properly after several hours, go to technical support or sales for the developer website (DevNet) for your region.

Recorded data

In the following cases, data saved on a PlayStation®Vita card or memory card might be lost or corrupted.

- Removing the PS Vita card or turning off the testing kit while it is saving or loading data.
- Removing the memory card while the testing kit is turned on.
- Using the cards in a location that is exposed to static electricity or electrical interference.

If, for any reason, software or data loss or corruption occurs, it is usually not possible to recover the software or data. It is recommended that you regularly back up software and data. Sony Computer Entertainment Inc. and its subsidiaries and affiliates will not be held liable for any damages or injury in the case of software or data loss or corruption.

Specifications

Design and specifications are subject to change without notice.

Testing kit

Screen	5 inches / 12.7 cm (16:9), 960 × 544, LCD, multi-touch capacitive touchscreen Approximately 16,770,000 colors displayed
Rear touch pad	Capacitive multi-touch pad
Cameras	Front camera, rear camera Maximum resolution: 640 × 480 (VGA)
Sound	Built-in stereo speakers Built-in microphone
Sensors	Six-axis motion sensing system (three-axis gyroscope, three-axis accelerometer), Three-axis electronic compass
Location	Supports Wi-Fi location service
Main slots and connectors	PlayStation®Vita card slot Memory card slot USB port Headset jack Microphone
Internal memory card	Approx. 1 GB*
Power source	Built-in rechargeable lithium-ion battery: DC 3.7 V, 2210 mAh AC adaptor: DC 5.0 V
Maximum power consumption	Approx. 6 W (when charging)
External dimensions	Approx. 183.6 × 15.0 × 85.1 mm / 7.2 × 0.6 × 3.4 in (width × height × depth) (excluding largest projection)
Weight	Approx. 219 g / 7.7 oz
Operating environment temperature	5 °C - 35 °C / 41 °F - 95 °F

* The internal memory card contains space that is available for users and space that is reserved for the system, so the actual space that is free for users is smaller than the total space stated in this document.

Network features

Wi-Fi	IEEE 802.11b/g/n support*
Bluetooth®	Bluetooth® 2.1+EDR compliant

* 802.11n is supported only for a 1 x 1 configuration.

AC adaptor

Input	AC 100-240 V, 50/60 Hz
Output	DC 5 V, 1500 mA (1.5 A)
External dimensions	Approx. 45 x 22 x 68 mm / 1.8 x 0.9 x 2.7 in (width x height x depth) (excludes largest projection)
Weight	Approx. 51 g / 1.8 oz

Contents

Testing kit x 1
AC adaptor x 1
AC power cord x 4
USB cable x 1
LAN adaptor x 1
Instruction manual x 1

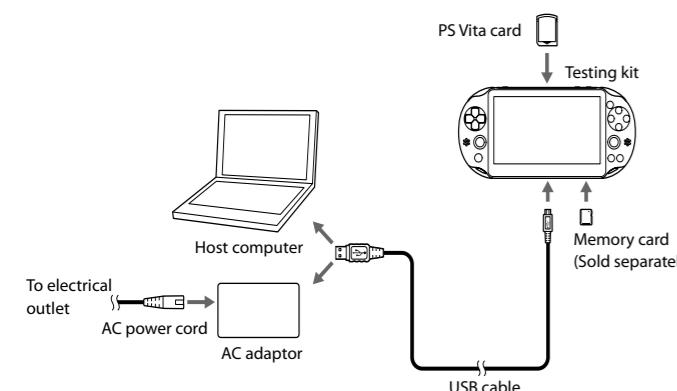
Estimating the battery charge time*

Charging with the AC adaptor	Approx. 2 hours 40 minutes
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* When charging a battery with no charge remaining.

System configuration overview

The system configuration is illustrated below.



Preparations for setup

You need the following to use the testing kit provided by SCE.

Host computer

Although you can use an ordinary PC with Microsoft® Windows® installed, it must have a USB port and be able to connect to the Internet.

Development website (DevNet) account

A DevNet account is required to download and activate the SDK package. For details concerning a DevNet account, contact your DevNet administrator.

Memory card

You can use a memory card for activation, to install applications and to update the system software.

Setup procedure

For details concerning setup, refer to "Getting Started" on the DevNet website.

1. Install the required software on the host computer.

Use SDK Manager to install the following items on the host computer: software, drivers and documentation required for using the testing kit. You can download SDK Manager from [Install SDK] on the DevNet website.

2. Set the testing kit expiration date (activation).

For details about activation, refer to the "Development Kit Setup Guide" and the "Development Kit Activation Guide" included in the SDK package.

3. Verify operation of an application.

For details concerning running applications, refer to the "Development Kit Setup Guide" included in the SDK package.

Shortcuts related to various types of SDKs are registered under [Start] ➡ [All Programs] ➡ [SCE].

Troubleshooting

A program fails to start

→ Check the expiration date of the testing kit. A program cannot start up if the testing kit has passed the expiration date. Activate the testing kit.

You can check the expiration date of the testing kit in [Debug Settings] ➡ [Activation] under [Settings] on the home screen.

For details concerning activation, refer to the "Development Kit Activation Guide" included in the SDK package.

Nothing is displayed when the power is turned on

→ If nothing is displayed on the testing kit screen after you press the testing kit power button, press and hold down the PS button, the power button and the R button simultaneously for at least 5 seconds to start up the testing kit in safe mode.

If the testing kit does not start in safe mode even after you keep pressing and holding down the PS button, the power button and the R button simultaneously for at least 5 seconds, the battery charge might be too low to turn on the testing kit. Charge the battery using the included AC adaptor.

For details concerning safe mode, refer to the "System Software Overview" included in the SDK package.

The power cannot be turned off

→ If the testing kit power cannot be turned off, press and hold down the power button until the safe mode screen appears and then restart the testing kit in safe mode. If the testing kit does not start in safe mode even after you keep pressing the power button for more than 30 seconds, the battery charge might be too low to turn on the testing kit. Charge the battery using the included AC adaptor.

For details concerning safe mode, refer to the "System Software Overview" included in the SDK package.

The most current version of this instruction manual also is available on DevNet.

Contact information

For information concerning the testing kit, go to technical support or sales for the developer website (DevNet) for your region.

Disclaimer

SCE shall bear no responsibility for any damage or loss due to the failure of this product except for those explicitly recognized by SCE or for which disclaimers are not recognized because of legal regulations.

For customers in Europe and Turkey

GB

R&TTE Directive "Informal DoC" statement

Hereby, Sony Computer Entertainment Inc., declares that this product* is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For details, please access the following URL:

<http://www.compliance.sony.de/>

* For details of the model number, please see above.

DK

R&TTE-direktivets "uformelle overensstemmelseserklæring"

Herved erklærer Sony Computer Entertainment Inc., at dette produkt* overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EU. Du kan finde yderligere oplysninger på følgende URL-adresse:

<http://www.compliance.sony.de/>

* Se ovennævnte for at få oplysninger om modelnummeret.

NL

R&TTE-richtlijn "Informal DoC"-verklaring

Hierbij verklaart Sony Computer Entertainment Inc. dat dit product* in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG. Nadere informatie kunt u vinden op:

<http://www.compliance.sony.de/>

* Zie voor informatie over het modelnummer hierboven.

FR

Déclaration "Informal DoC" de la Directive R&TTE

Par la présente Sony Computer Entertainment Inc. déclare que ce produit* est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE. Pour toute information complémentaire, veuillez consulter l'URL suivante :

<http://www.compliance.sony.de/>

* Pour des informations sur le numéro de modèle, voir ci-dessus.

DE

Konformitätserklärung („DoC“) zur R&TTE-Richtlinie

Hiermit erklärt Sony Computer Entertainment Inc., dass sich dieses Produkt* in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet. Weitere Informationen erhältlich unter:

<http://www.compliance.sony.de/>

* Nähere Informationen zur Modellnummer siehe oben.

HU

R&TTE irányelv „nem hivatalos DoC“-nyilatkozat

A Sony Computer Entertainment Inc. kijelenti, hogy ez a termék* megfelel az 1999/5/EK irányelv követelményeinek és vonatkozó rendelkezéseinek. További információkat a következő weboldalon találhat:

<http://www.compliance.sony.de/>

* A modell számára vonatkozó információkat lásd fent.

IT

"Dichiarazione informale di conformità" alla Direttiva R&TTE

Con la presente Sony Computer Entertainment Inc. dichiara che questo prodotto* è conforme ai requisiti essenziali e alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/EC. Per ulteriori dettagli, si prega di consultare il seguente URL:

<http://www.compliance.sony.de/>

* Per dettagli sul numero del modello, vedere sopra.

NO

"Uformell samsvarserklæring" i henhold til R&TTE-direktivet

Sony Computer Entertainment erklærer herved at dette produktet* er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EU. For flere detaljer, vennligst se:

<http://www.compliance.sony.de/>

* For detaljer om modellnummeret, vennligst se ovenfor.

PL

Nieoficjalna deklaracja zgodności z Dyrektywą R&TTE

Niniejszym Sony Computer Entertainment Inc. oświadcz, że ten produkt* jest zgodny z zasadniczymi wymaganiami oraz innymi stosownymi postanowieniami Dyrektywy 1999/5/WE. Szczegółowe informacje znaleziesz można pod następującym adresem URL:

<http://www.compliance.sony.de/>

* Szczegółowe informacje na temat numeru modelu znajdują się powyżej.

ES

Comunicado "Informal DoC" de la Directiva R&TTE

Por medio de la presente, Sony Computer Entertainment Inc. declara que este producto* cumple con los requisitos esenciales y cualesquier otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE. Para obtener más información, por favor consulte la siguiente URL:

<http://www.compliance.sony.de/>

* Si quiere conocer más detalles sobre el número de modelo, mire más arriba.

GR

Ανεπίσημη δήλωση συμμόρφωσης με την Ευρωπαϊκή Οδηγία σχετικά με το ραδιοεξοπλισμό και τον τηλεπικοινωνιακό τερματικό εξοπλισμό

Με την παρούσα, η Sony Computer Entertainment Inc. δηλώνει ότι αυτό το προϊόν* συμμορφώνεται προς τις ουσιώδεις απαιτήσεις και τις λοιπές σχετικές διατάξεις της οδηγίας 1999/5/ΕΚ. Για λεπτομέρειες, παρακαλούμε όπως ελέγχετε την ακόλουθη σελίδα του διαδικτύου:

<http://www.compliance.sony.de/>

* Για λεπτομέρειες σχετικά με το μοντέλο προϊόντος, παρακαλούμε να δείτε ανωτέρω.

PT

Declaração de "Conformidade Informal" com a Directiva R&TTE

Sony Computer Entertainment Inc. declara que este produto* está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE. Para mais informações, por favor, consulte a seguinte URL:

<http://www.compliance.sony.de/>

* Para mais informações sobre o número do modelo, por favor, veja em cima.

SE

Uttalande om uppfyllelse av R&TTE-direktivet (direktivet om radio- och teleterminalutrustning)

Härmad intygar Sony Computer Entertainment Inc. att denna produkt* står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG. För ytterligare information, gå i på följande hemsida:

<http://www.compliance.sony.de/>

* Modellnumret återfinns ovan.

CZ

Směrnice R&TTE prohlášení "Informal DoC"

Sony Computer Entertainment Inc. tímto prohlašuje, že tento produkt* je ve shodě se základními požadavky a dalšími příslušními ustanoveními směrnice 1999/5/EC. Podrobnosti lze získat na následující URL:

<http://www.compliance.sony.de/>

* Podrobnosti o čísle modelu jsou uvedeny výše.

SK

Smernica R&TTE - vyhlášenie "Neformálny DoC"

Sony Computer Entertainment Inc. týmto vyhľasuje, že tento produkt* splňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES. Podrobnosti získate na nasledovnej webovej adrese:

<http://www.compliance.sony.de/>

* Podrobnosti o čísle modelu sú uved