

**SONY**<sup>®</sup>

# White paper

December 2014



**SmartWatch 3**

SWR50

# About this document

---

This document contains technical specifications for the Sony SWR50 Smartwatch 3.

## Document history

---

Version		
August 2014	First released version	Version 1
December 2014	Second released version	Version 2

## Sony Mobile Developer World

---

For the latest technical news, tutorials and development tools, go to [www.sonymobile.com/developer](http://www.sonymobile.com/developer).

This White paper is published by:

Sony Mobile Communications Inc.,  
1-8-15 Konan, Minato-ku, Tokyo108-0075, Japan

[www.sonymobile.com](http://www.sonymobile.com)

© Sony Mobile Communications Inc., 2014.  
All rights reserved. You are hereby granted a  
license to download and/or print a copy of this  
document.  
Any rights not expressly granted herein are  
reserved.

First released version (August 2014)  
Publication number: 1291-4834.1

This document is published by Sony Mobile  
Communications Inc. without any warranty\*.  
Improvements and changes to this text  
necessitated by typographical errors,  
inaccuracies of current information or  
improvements to programs and/or equipment  
may be made by Sony Mobile Communications  
Inc. at any time and without notice. Such  
changes will, however, be incorporated into new  
editions of this document. Printed versions are to  
be regarded as temporary reference copies only.

\*All implied warranties, including without  
limitation the implied warranties of  
merchantability or fitness for a particular  
purpose, are excluded. In no event shall Sony or  
its licensors be liable for incidental or  
consequential damages of any nature, including  
but not limited to lost profits or commercial loss,  
arising out of the use of the information in this  
document.

# Table of contents

<b>Product overview .....</b>	<b>2</b>
SmartWatch 3 SWR50 .....	2
Facts – dimensions, weight, performance .....	2
Requirements on tablets and smartphones .....	4
<b>Technologies in detail .....</b>	<b>5</b>
Device-to-device communications (local) .....	5
Bluetooth® wireless technology .....	5
<b>Trademarks and acknowledgements .....</b>	<b>6</b>

# Product overview

## SmartWatch 3 SWR50

---

The SmartWatch 3 SWR50 is both a unique standalone device as well as a companion product that interacts seamlessly with your Android phone or tablet (Android version 4.3 or later) to add new functionality and possibilities. Featuring a screen with a hardened glass surface for maximum scratch resistance and durability, a stainless steel body, and an IP rating of 68, the SmartWatch 3 is built to take whatever daily life throws at it. But behind the sleek design, there's so much more.

The SmartWatch 3 has a 1.6-inch transfective TFT LCD display, securing visibility in sunlit conditions while also offering great image quality with rich colours. A highly responsive capacitive touch system supports an easy-to-use interface. And, then, there are the apps – hundreds of applications are available for your SmartWatch 3 via the Google Play™\* store, and new ones are becoming available all the time. So you can find new ways to use your device every day.

\* This service is not available in all markets.

## Facts – dimensions, weight, performance

---

<b>Processor</b>	1.2 GHz, Quad-core ARM® Cortex™ A7
<b>Size (module)</b>	36 x 10 x 51 mm
<b>Weight</b>	
Watch module	38 grams
Classic wristband	38 grams
Sport armband	35.7 grams
<b>Available colours</b>	Black, White (classic wristband version) Pink, Lime (sport armband version)
<b>Display</b>	
Colours	16 bit
Resolution	320x320 pixels
Size (diagonal)	1.6 inch
Type of display	Transfective TFT LCD
<b>Touch</b>	Capacitive
<b>Keys</b>	Power key (On/Off)
<b>Vibrator</b>	Yes

<b>Memory</b>	
Flash	4 GB eMMC
RAM	512 MB
<b>Sensors</b>	
Ambient light sensor	Yes
Accelerometer	Yes
Magnetometer	Yes
Gyro	Yes
<b>Wi-Fi®</b>	Wi-Fi® ready
<b>GPS</b>	Yes
<b>Bluetooth</b>	
Bluetooth specification	4.0
Transfer rate	< 3 Mbps
Power class	Class 1
<b>NFC</b>	Yes, to power on the SWR50 and start the Android Wear host application
<b>USB</b>	Yes, standard micro USB for charging and ADB
<b>Battery</b>	
Type	Li-polymer
Capacity	420 mAh
Charge time	≤ 1 hour
<b>Usage time</b>	
Typical usage	Up to 2 days
Standby time	Up to 4 days
<b>Environmental data</b>	
Operating temperature range	-20°C to +60°C
Operating humidity range	5% to 99% RH
Storage temperature range	-40°C to +85°C
Storage humidity range	20% to 95% RH
Charging temperature range	0°C to 45°C
Water and dust classification	IP68*

\* In compliance with IP68, this accessory is protected against the ingress of dust and is waterproof. Provided that all ports and covers are firmly closed, the accessory can be kept under 1.50 metres of freshwater for up to 30 minutes in compliance with IP68.

Find out more at [www.sonymobile.com/testresults](http://www.sonymobile.com/testresults)

## Requirements on tablets and smartphones

---

<b>Operating system compatibility</b>	Android version 4.3 and later
<b>Bluetooth</b>	Version 4.0

# Technologies in detail

**NOTE:** The information outlined below is general and levels of compliance to standards and specifications may vary between products and markets. For more information, contact Sony Mobile Developer World or your Sony contact person where applicable.

## Device-to-device communications (local)

---

### Bluetooth® wireless technology

Bluetooth® profiles supported	Advanced Audio Distribution Profile v1.2 Audio/Video Remote Control Profile v1.3
Core version and supported core features	Version 4.0
Connectable devices	Products which support at least one of the Bluetooth® profiles listed above.

More information:

[www.sonymobile.com/developer](http://www.sonymobile.com/developer)

[www.bluetooth.com](http://www.bluetooth.com)

# Trademarks and acknowledgements

All product and company names mentioned are the trademarks or registered trademarks of their respective owners. Any rights not expressly granted are reserved.

Visit [www.sonymobile.com](http://www.sonymobile.com) for more information.