

September 2013

# SmartWatch 2

Specification

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## Preface

### Developer World

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

### About this document

This document describes the Sony Mobile SmartWatch 2 product

### Document history

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#### Change history

2013-09-06

Version 1.0

First revision

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# Contents

- SmartWatch 2 summary ..... 5
- Facts – dimensions, weight and performance ..... 5
- Requirements on Phone ..... 7

## SmartWatch 2 summary

SmartWatch 2 is the latest carefully designed aluminium body SmartWatch from Sony. The design is IP57 classed to make it resistant to dust and water. It operates either as a companion to any Android (v4.0 or later) mobile phone or as a standalone watch.

SmartWatch 2 has a 1.6” transfective TFT LCD securing sunlight visibility while still offering good image quality with rich colours and 60fps update frequency when needed. A fast responding capacitive touch system supports an easy-to-use interface. The outer surface is made of hardened glass which protects your SmartWatch 2 from scratches and is easily cleaned.

Already now there are hundreds of apps available for Sony wireless accessories at Google Play™ for SmartWatch2 and more will become available.

## Facts – dimensions, weight and performance

<b>Processor</b>	ARM 32-bit Cortex™-M4, STM32F429
<b>Size (housing)</b>	48.03 x 41.6 x 10.34
<b>Weight</b>	
Watch with silicon strap	48.4 gram
Watch with metal strap	122.5 gram
<b>Available colours</b>	Black
<b>Display</b>	
Colours	65k
Resolution	220 x 176
Size (diagonal)	1.6”
Type of display	Transfective TFT LCD
<b>Touch</b>	Capacitive
Resolution	228 x 212 (same pixel size as display)

Keys	3 (Return, Home and Options)
<b>Vibrator</b>	Yes
<b>Memory</b>	
RAM	256kB internal RAM + 2MB PSRAM
Flash	2MB internal ROM + 4GB eMMC
<b>Sensors</b>	
Ambient Light Sensor	Yes
Accelerometer	Yes
Magnetometer	Yes
<b>Bluetooth</b>	
Bluetooth specification	3.0
Power class	Class 2
Transfer rate	<3Mbps
<b>NFC</b>	Yes, for One touch™ pairing
<b>USB</b>	Yes, standard μUSB for charging only
<b>Battery</b>	
Type	Lithium-ion polymer
Capacity	235mA
Charge time	≤1h 30min
<b>Usage Time</b>	
Typical usage	3-4 days
Stand-by time	125 hours
<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	+10°C to 32°C
Water and dust classification	IP57

## Requirements on Phone

<b>Operating System compatibility</b>	Any Android v4.0 or later phone
<b>Bluetooth</b>	v 2.1 or later preferably with EDR3