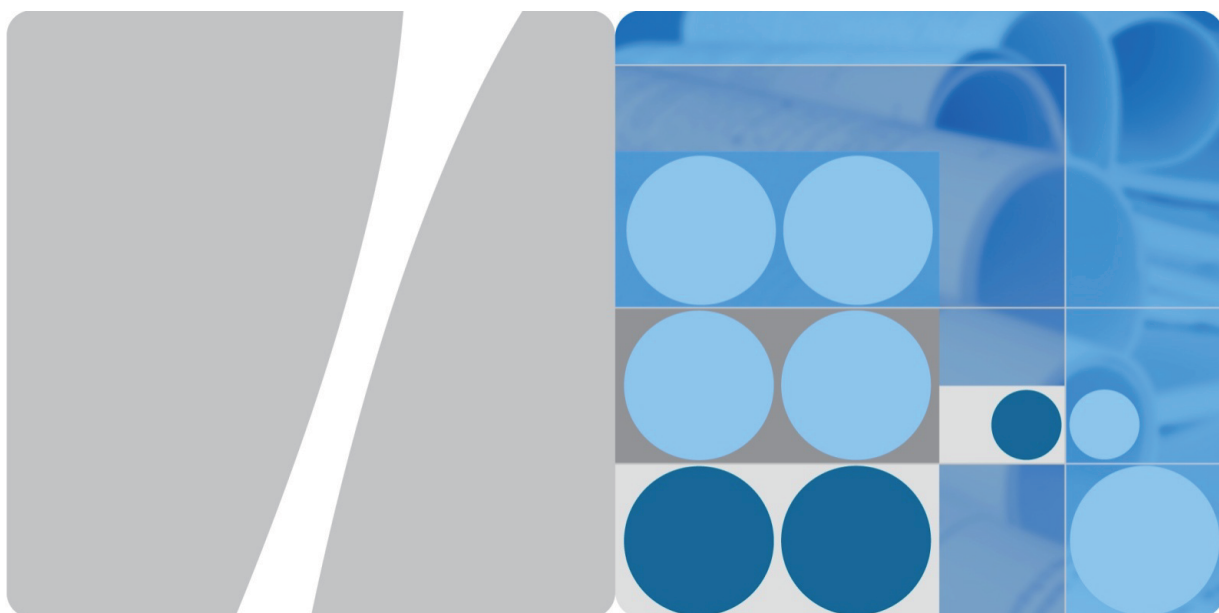


# Product Description



**HUAWEI WATCH  
V100R001**

Issue      **02**

Date        **18/08/2015**

**Huawei Technologies Co. Ltd.**



Huawei Technologies Co., Ltd. provides customers with comprehensive technical support and service. Please feel free to contact our local office or company headquarters.

## **Huawei Technologies Co., Ltd.**

Address: Huawei Industrial Base  
Bantian, Longgang  
Shenzhen 518129  
People's Republic of China

Website: <http://consumer.huawei.com/en/>

**Copyright © Huawei Technologies Co., Ltd. 2015. All rights reserved.**

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

## **Trademarks and Permissions**



and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

## **Notice**

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

## **Privacy Policy**

To better understand how we protect your personal information, please see the privacy policy at <http://consumer.huawei.com/privacy-policy>.

## Summary

This document provides information about the major functions, supported services and system architecture.

The following table lists the contents of this document.

Chapter	Details
1 Overview	The basic services and functions, and the appearance of the product.
2 Product functions and application scenarios	General functions and application scenarios of the product.
3 Features	The technical specifications of the product.
4 System architecture	The architecture of the product.
5 Packing list	The items contained in the package of the product.

## History

Issue	Details	Date
01	Released the first version.	2015-07-31
02	Updated the weight and Typical battery life.	2015-08-18

## Contents

<b>1 Product overview .....</b>	<b>6</b>
<b>2 Features and apps .....</b>	<b>8</b>
2.1 Pairing with a phone/tablet.....	8
2.2 Voice interaction .....	8
2.3 Message notifications .....	8
2.4 Exercise and fitness tracking.....	8
2.5 Heart rate monitor .....	8
2.6 Listening to music with a Bluetooth headset .....	9
<b>3 Product specifications.....</b>	<b>10</b>
3.1 Watch specifications .....	10
3.2 Software specifications.....	12
<b>4 System framework.....</b>	<b>13</b>
4.1 System framework diagram .....	13
4.2 Overview of watch modules .....	13
<b>5 Purchase guide.....</b>	<b>14</b>

## 1 Product overview

The HUAWEI WATCH integrates health and fitness data, voice interaction, and call and message notifications into one smart watch. It is primarily designed for business people, gadget fans, and people that want to monitor their health and fitness in style.

The watch features a traditional circular dial with a timeless and high-tech design. With a sapphire crystal face and straps that have passed strict dermatological tests, the watch is safe and comfortable to wear. Customers can choose from a selection of exquisite leather and stainless steel straps for different occasions.

The HUAWEI WATCH offers the following features:

- Replaceable watch face (customers can choose from a selection of beautifully-designed classic, digital, or sporty watch faces)
- Message notifications (incoming calls, text messages, Google Hangouts, emails, and more)
- Voice interaction
- Exercise recognition (walking, running, and climbing stairs)
- Exercise statistics (per session or per day)
- Calorie statistics
- Counts the number of times you stand up each day
- Heart rate monitor
- Bluetooth
- Wi-Fi
- Music
- Map-based navigation
- Time display
- World clock
- Stopwatch
- Timer
- Alarm
- Supports a wide range of watch apps in the Google Play Store

The watch can be connected to Android phones and tablets via Bluetooth. Download the Android Wear app on an Android device, then turn on the HUAWEI WATCH, select the desired language and follow the prompts to pair with the phone or tablet. Once the devices have been paired successfully, users can view and manage the watch via the Android Wear app and experiment with the functions on their new watch.

See Figure 1-1 below for the available watch designs.

**Figure 1-1** Watch designs



## 2 Features and apps

### 2.1 Pairing with a phone/tablet

**Step 1** Download and install the Android Wear app on your phone or tablet.



Please update your device to Android OS 4.3 or later.

**Step 2** Follow the prompts in the Android Wear app to pair or sync your Android phone/tablet with your HUAWEI WATCH.

### 2.2 Voice interaction

Say "Ok Google" to the watch face to activate voice interaction. Once the watch has recorded your voice command, it will send the voice command to your Android phone/tablet, which will then send the information to the Google cloud for voice recognition. Google will then send the corresponding command to your HUAWEI WATCH via your Android phone/tablet to launch the related app or display your search results.

**Note:** When using this feature, you must ensure that your watch stays connected to your Android device and that the device is connected to the Internet.

### 2.3 Message notifications

Your watch can display your phone's notifications in real time, such as messages, calls and app notifications. Notifications are sent to your watch via Bluetooth, and your watch vibrates when notifications are displayed. For some notifications, you can use your watch to perform certain actions, for example, reply to or delete SMS messages/instant messages, answer or decline calls or hide notifications.



When using this feature, you must ensure that your watch stays connected to your Android device and that the device is connected to the Internet.

### 2.4 Exercise and fitness tracking

Using the built-in Accelerator Gravity sensor (A+G sensor) and gyroscope, your watch monitors a variety of different activities throughout the day (walking, running, and climbing stairs). It also counts your steps, calories burned, and the number of times that you stand up each day. Go to **Daily tracking** to view your exercise stats on your watch. When you start an exercise session, open **Fitness tracking** to start recording data.

### 2.5 Heart rate monitor

The watch monitors your heart rate using the built-in PPG heart rate sensor and displays the data on-screen. You can also sync your heart rate data to your Android phone/tablet and then sync it to cloud services, such as Google Fit.



## 2.6 Listening to music with a Bluetooth headset

You can stream music from your watch to a Bluetooth headset so that you can listen to music without the need to carry your phone with you when walking, running or exercising. You can also use your watch to control music playback, for example, skip between tracks and adjust the volume.

Follow the steps below to stream music from your watch to a Bluetooth headset:

- Step 1** Download and install the Google Music app on your Android phone or tablet.
- Step 2** Purchase some music on the Google Play Store.
- Step 3** Select **Download to Android Wear** and wait for the music to download to your phone and sync with your watch.
- Step 4** In your watch settings, search for and connect to your Bluetooth headset.
- Step 5** Select the Play Music app on your watch and then select **Play on Wear** to start playback.

## 3 Product specifications

### 3.1 Watch specifications

The watch specifications are listed in Table 3-1.

Table 3-1 Watch specifications

Item	Description	
Dimensions	Watch face diameter	42 mm
	Watch thickness	11.3 mm
Weight	With stainless steel mesh band	Approx. 95 g
	With stainless steel link bracelet	Approx. 134 g
	With leather band	Approx. 60 g–62 g
Material	Body	Stainless steel
	Front cover	Sapphire crystal
	Rear cover	Stainless steel, Corning glass
Strap	Metal or leather Strap is replaceable with 21 mm or 18 mm straps	
Length of supported straps	Stainless steel mesh band	120 mm–210 mm
	Stainless steel link bracelet	120 mm–210 mm
	Leather band	145 mm–200 mm
Screen	Dimensions	1.4 inches (display), AMOLED circular screen (with full display)
	Resolution	400 x 400 pixels, 286 ppi
Touchscreen	Single layer, two-touch	
Battery capacity	300 mAh	
Charging port	Magnetic pin	
Charging time	75 minutes	
Typical battery life	1.5 days (24 hours active, 8 hours sleep)	

Item	Description	
Charging dock	Magnetic charging cradle (including cable)	
Power adapter	Input: 100–240 V, 50/60 Hz Output: 5 V/1 A	
Screen modes	Lift, raise, or rotate wrist to turn on screen, Ambient mode	
Sensors	Gyroscope	
	A+G sensor	
	Heart rate sensor (PPG)	
	Barometer (after future updates)	
Memory	4 GB Flash + 512 MB RAM	
Bluetooth frequency	2.4 GHz	
Maximum Bluetooth range	10 m	
Wi-Fi	Wi-Fi 1 x 1	
Microphone	Built-in microphone	
Vibrator	Built-in vibrator	
Maximum transmitting power	Wi-Fi	Wireless: 8 dBm
		Wired: 17 dBm
	Bluetooth	Wireless: 0 dBm
		Wired: 8 dBm
Receiver sensitivity	Wi-Fi	Wireless: –75 dBm
		Wired: –86 dBm
	Bluetooth	Wireless: –80 dBm
		Wired: –88 dBm
Water and dust resistance rating	IP67	
Button (watch crown)	Press to operate watch	
Temperature	Operating temperature: 0°C–+35°C	
	Storage temperature: –20°C–+60°C	
Humidity	5–95% RH (non-condensing)	

## 3.2 Software specifications

The software specifications are listed in Table 3-2.

**Table 3-2** Software specifications

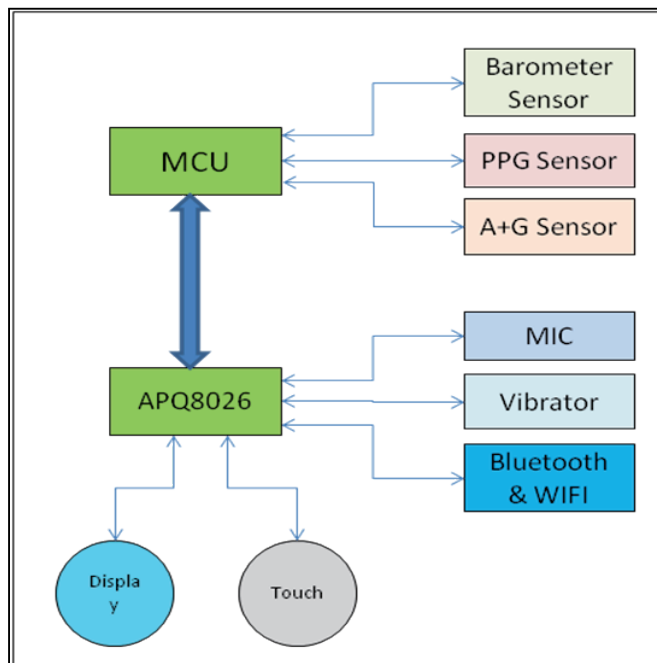
	Description
Exterior	Replaceable watch face (customers can choose from a selection of beautifully-designed classic, digital, or sporty watch faces)
Message notifications	<ul style="list-style-type: none"><li>• Message notifications (incoming calls, text messages, Google Hangouts, emails, and more)</li><li>• Voice interaction</li><li>• Google Now</li><li>• Map-based navigation</li></ul>
Sports & Health	<ul style="list-style-type: none"><li>• Recognizes different types of activity (walking, running, and climbing stairs)</li><li>• Set a goal and receive reminders to help you achieve your target</li><li>• Exercise statistics (per session or per day)</li><li>• Calorie statistics</li><li>• Records the number of times you stand up each day</li><li>• Heart rate monitor</li></ul>
Music playback	Supports music playback using Google Music
Data cache and sync	Stores exercise and fitness data
Third-party apps	Download a variety of different watch apps on the Google Play Store.
Operating system	Android Wear
Software updates	<ul style="list-style-type: none"><li>• Supports OTA updates</li><li>• iOS (after future updates)</li></ul>
System requirements	Android OS 4.3 or later

## 4 System framework

### 4.1 System framework diagram

See Figure 4-1 below for an outline of the system framework.

Figure 4-1 System framework diagram



### 4.2 Overview of watch modules

- **APQ8026:** The watch's main processor for running the Android Wear OS, system scheduling, and controlling the display and touchscreen. The processor controls the microphone and vibrator as well as the Bluetooth and Wi-Fi modules.
- **MCU:** The watch's microcontroller, used to control various sensors, compute the sensors' data, and communicate with the main processor.
- **Bluetooth/Wi-Fi modules:** The watch connects to and exchanges information with a phone via Bluetooth and Wi-Fi. It uses the phone's Internet connection to connect to Google cloud services in order to process voice commands and access other features.

## 5 Purchase guide

This chapter lists the items included with the product.

See Table 5-1 for the list of accessories included with the watch.

**Table 5-1** Package contents list

Item	Quantity	Type
Watch	1	Standard
Charging cradle (including the USB cable)	1	Standard
Power adapter	1	Standard
Quick start guide	1	Standard
Safety information	1	Standard
Warranty card	1	Optional

# A

A+G sensor	Accelerator Gravity sensor
AMOLED	Active-matrix Organic Light Emitting Diode
App	Application
BT	Bluetooth
DC	Direct Current
MCU	Micro Control Unit
MIC	Microphone
OTA	Over the Air
PPG	Pulse Pattern Generator
RAM	Random Access Memory
USB	Universal Serial Bus
Wi-Fi	Wireless Fidelity