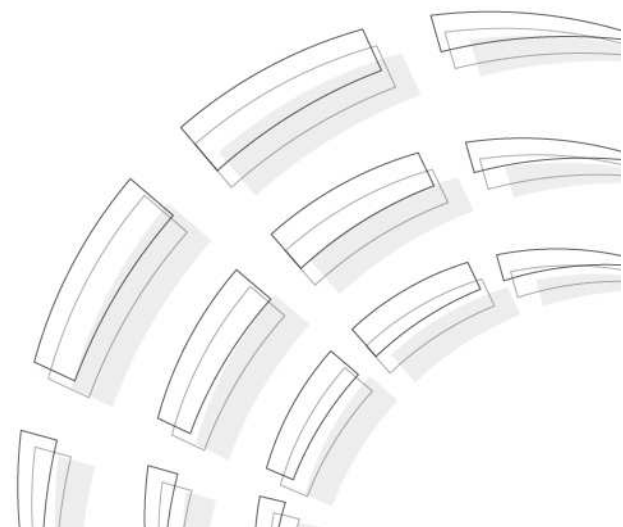




## Operating Instructions for Orderman Sol+ & Sol+ MSR



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Orderman GmbH  
Bachstrasse 59,  
5023 Salzburg – Austria

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

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# General Information

This description applies to Orderman Sol+ and Sol+ MSR devices. The functions of both products are fundamentally identical and are described below using Orderman Sol as an example.

Please note that (as of July 2010) the dual battery charger is not yet available. Once this product becomes available, we will update this document and post it on the Orderman homepage for download.

## 1. Safety information

### 1.1. Explanation of symbols



**Safety information** is indicated in the text by a warning triangle and a grey background.

Signal words indicate the degree of danger that will result, unless actions to reduce damage are taken.

- **Caution** indicates that minor property damage may result.
- **Warning** indicates that minor bodily injury or major property damage may result.
- **Danger** indicates that serious bodily injury may result. In particularly serious incidents, loss of life may result.



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Notes are indicated in the text by the adjoining icon. They are set off by horizontal lines above and below the text.

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Notes provide important information about incidents that involve no risk to persons or equipment.

## 1.2. General safety information



### Caution:

- Orderman Sol does not contain any parts to be serviced by the user and therefore must not be opened. If opened, the warranty is rendered null and void.
- Do not expose the unit to extreme weather conditions such as rain, hail, strong sunlight or snow. In case of damage, the unit must be examined by customer service for possible faults.
- Use only the Orderman Touch Pen for pen operation with Orderman Sol. Pencils, ballpoint pens or other pointed objects will damage the device's touch screen.
- The device could suffer damage from a heavy mechanical load such as twisting or falling from an excessive height or onto sharp objects.



### Warning:

- Do not, under any circumstances, short-circuit the charging contacts of the handheld device.
- Orderman Sol+ is equipped with a Bluetooth interface for wireless communication. Never use the handheld device in environments where Bluetooth could cause interference (airplanes, hospitals, etc.).

## 1.3. Safety information for battery pack



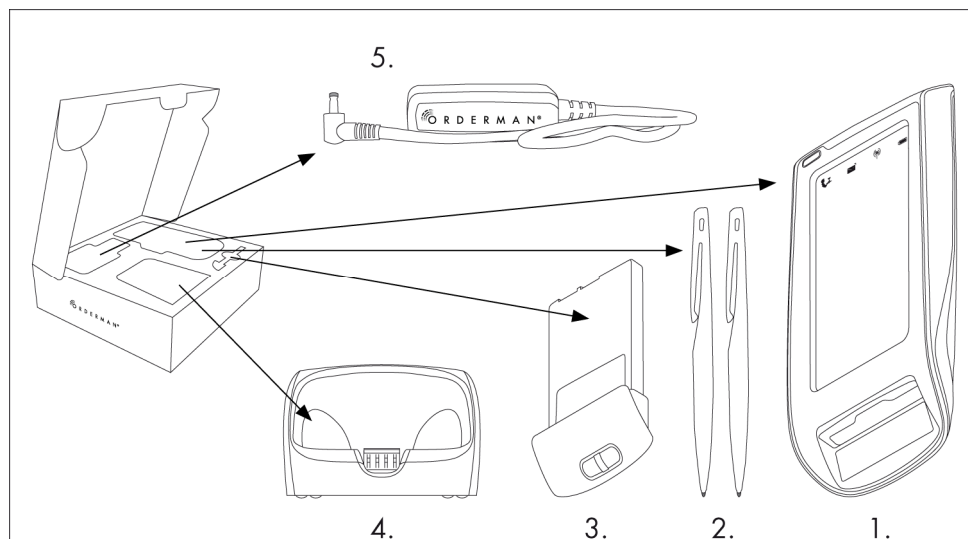
### Warning:

- Only use the battery model included with the delivery.
- Do not subject the battery to extreme heat. Never short-circuit the contacts since there is an explosion hazard.
- Charging temperature 0-40° C

## 1.4. Maintenance

- To clean the housing of the unit, use a soft cloth moistened in a mild solution of cleaning agent and water.
- Do not use compressed air to clean the unit or its components.
- Never use turpentine, thinners or other volatile agents to clean the unit; do not use compressed air to remove dust.
- Make sure that you do not scratch the touch screen surface.
- Make sure that you keep the charging contacts clean.

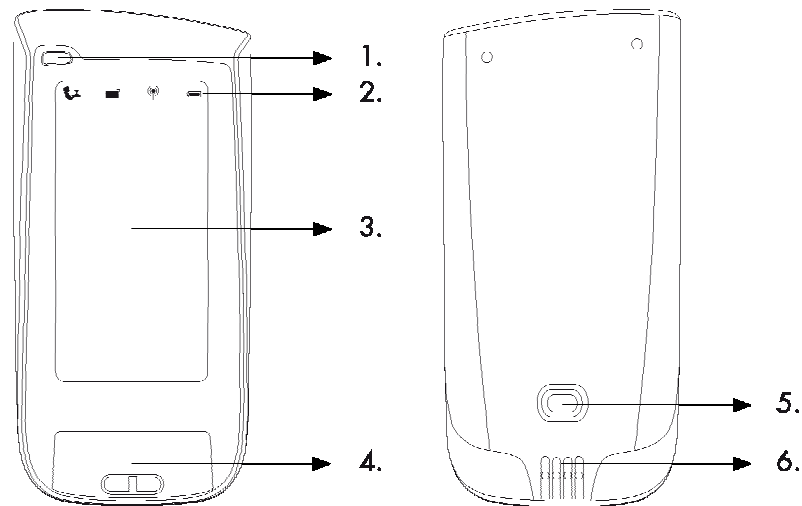
## 2. Delivery volume



1. Orderman Sol and Sol+
2. Two Orderman touch pens
3. Battery pack
4. Charging station or service station
5. 5 V power supply unit

# Orderman Sol

## 3. Overview of Orderman Sol



1. On/Off button
2. Status bar
3. Display / touch screen
4. Battery compartment with safety cord fastener
5. Battery lock
6. Charging contacts / Ethernet port

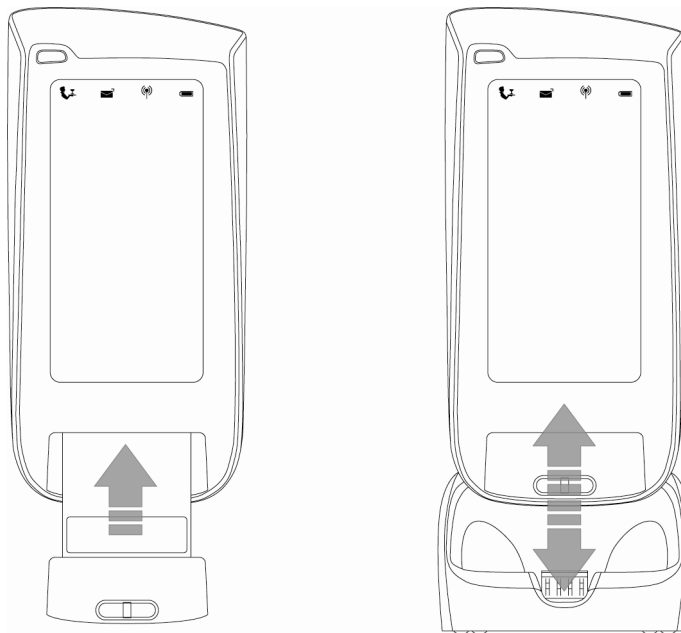
## 4. Charging the battery pack

This section describes the steps for charging the battery pack. A fully charged battery pack can be used for up to 18 hours, depending on the setting of the automatic power-off time and display settings.



Fully charge the battery before using the device (until a solid green light appears). To charge units quickly you can also use the dual charger (optional).

When the battery is very low, the battery status indicator flashes red. To restart the device, you may need to recharge the battery for 20 minutes.



- Insert the battery in the backside of the unit.
- Insert the unit in the charging station or service station; the unit will turn on.
- The charging icon in the status bar shows the battery level.

The following battery states are available:



**White solid light** - Battery OK



**Green solid light** – Battery full (in charging station / service station)

**Green flashing light** – Battery is charging (in charging station / service station)



**Orange solid light** – Battery low ~20% remaining

**Orange flashing light** – Battery very low ~10% remaining



**Red solid light** – Battery defective

**Red flashing light** – Battery too weak for boot procedure



## 5. Operation (Setup)

Settings are always confirmed with a green checkmark. Use Cancel to exit setup mode.



### The status bar

The status bar is located at the top of the touch screen and consists of four icons.



#### Get more

Access *Setup*



#### Message

Retrieve and  
create messages



#### Connection

Status of  
connection



#### Battery

Status of the  
battery

The status bar is used to quickly and clearly display the system states. You can also touch the different icons to call up additional information.

### 5.1. Status bar *Get more*

Touch the *Get more* icon to go to the device setup screen. The setup screen contains settings and test options for Orderman Sol.

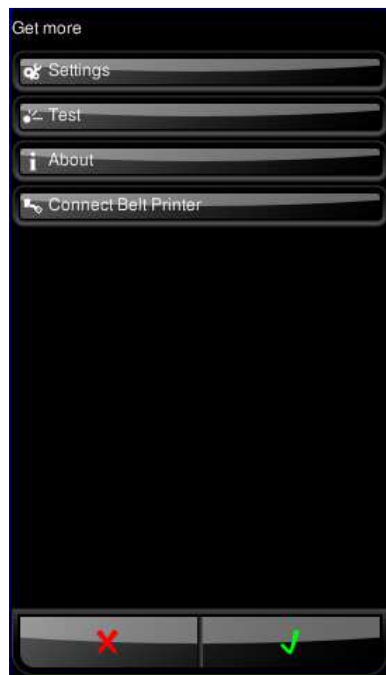


Service personnel can call up the *Get more* menu at any time. This menu allows you to set the display brightness, backlight timeout, etc. You can also test the touch screen in this menu. It is **not** possible to change installation-relevant settings such as the radio channel and IP address.

## Get More (Setup)



White solid light – Setup OK

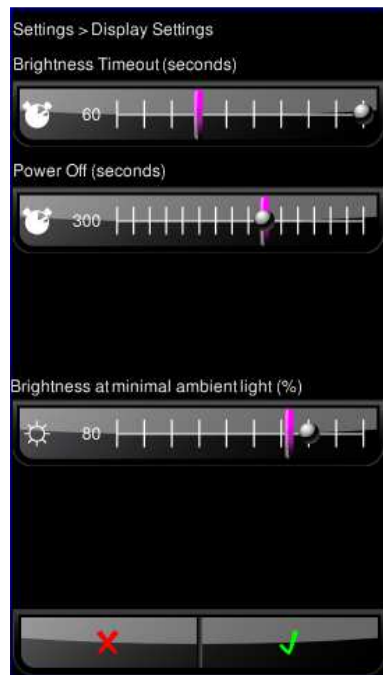


Start screen for setup

(*Connect Belt Printer* displayed only on Sol+)

- Configuration (*Settings*)
  - Display configuration (*Display Settings*)

To configure the settings, touch the dot on the scale and drag it to the desired position. The violet bar in the scale indicates the factory default.



The Display Settings menu item enables you to configure the following settings:

- *Brightness Timeout (seconds)*: Enables you to set the number of seconds before the display brightness is dimmed. A shorter timeout period saves battery power when the device is in operation.
- *Power Off (seconds)*: Enables you to set the number of seconds before the display switches off, if device is unused. A shorter timeout period saves battery power when the device is in operation.
- *Brightness at minimal ambient light (%)*: Enables you to set the display brightness.

– Logging

Use *Logging On/Off* to enable/disable the unit's logging function.

– Set Mark

Use *Set Marker* to set a marker on the unit.

• Test

The *Test* menu item enables you to test the LEDs in the status bar, the display, the touch screen, and the tilt sensor to ensure proper function; it also allows you to run a ping test.

Ping tests only work if the device is in the service station and LAN connectivity is established.

On Sol+ you can test the belt printer – and Ordercard functionality.

• About

This item displays information about the unit's hardware and software, as well as its serial number.

- *(Connect Belt Printer)* Sol+ only

## 5.2. Message status bar

The *Message* icon provides access to internal messaging systems and allows you to create and read messages.

The function is application-specific.

Two different states are supported:



**White solid light** – No new messages received



**Yellow flashing light** – Unread messages in mailbox

### 5.3.

#### Connection status bar

The connection icon provides information about the status of the radio connection and the configured channel.

See also the illustrations in the following table:



**White solid light** - Radio connection OK



**Red flashing light** – The unit does not detect a base station.



**Blue flashing light** – Host does not accept data



**Violet flashing light** – License expired

In addition, the connection icon shows the state of the unit in the service station. See also →Service Station→ under AccessoriesSystem Displays in the Service Station

Use *Connections LED Information* to call up a legend with all the different formats for displaying connection status.

### 5.4.

#### Battery status bar

The battery icon provides information about the state of the battery.

Depending on the icon, the state can be determined. Touch the icon to display the battery power available as a graphic and a percentage amount. Use

*Battery LED Information* to call up a legend with all the different formats for displaying battery power.

The following states are available:



**White solid light** – Battery OK



**Green solid light** – Battery full (in charging station / service station)

**Green flashing light** – Battery is charging (in charging station / service station)



**Orange solid light** – Battery low ~20% remaining

**Orange flashing light** – Battery very low ~10% remaining



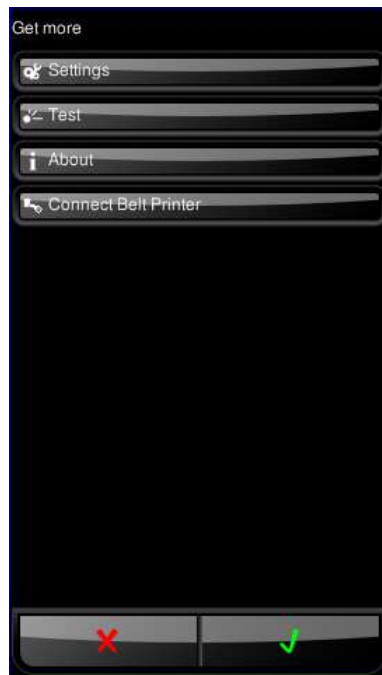
**Red solid light** – Battery defective

**Red flashing light** – Battery too weak for boot procedure

# Orderman Sol+

## 1. Connect belt printer

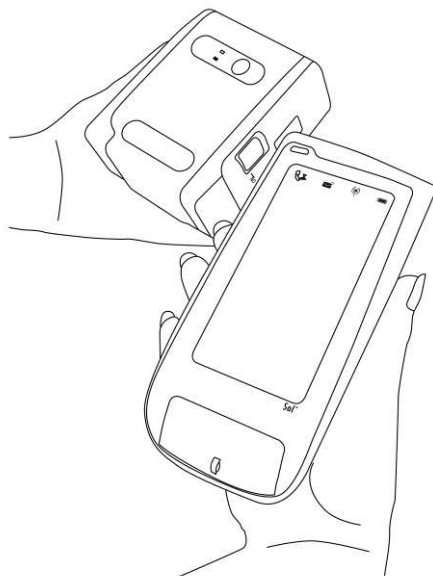
To connect the belt printer to Sol+, open the *Get more* menu and select *Connect belt printer*



Get more menu



Connect Belt Printer



- Belt printer "On"
- Hold the belt printer to the upper left of Sol+ as shown in the figure
- When the *Get more* icon lights up blue for two seconds, the belt printer is connected to Sol+

- Sol+ is now establishing the connection to the belt printer
- Once the belt printer is detected, the *Get more* LED lights up blue for two minutes. In addition, a test page is printed. This test page includes:
  - *Figure 1 (if available)*
  - *Successfully connected to: <Sol serial no.>*
  - *Figure 2 (if available)*
- The display shows the serial number of the Sol+ unit
- Select *OK* to confirm active connection
- Select *Cancel* to end the connection

## 2. Belt printer Test



Belt Printer Test

To launch the belt printer test, open the *Get more* menu and select *Test* → *belt printer Test*.

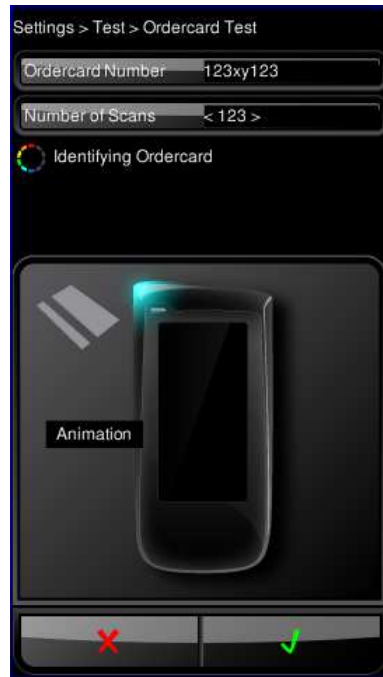
Click on this test to check the device connection in advance and subsequently print the test page. Printing the test page on the belt printer enables you to check the device's functionality.

This test page includes:

*Figure 1 (if available)*  
*Successfully connected to: <Sol serial no.>*  
*Figure 2 (if available)*

Select *Ok* or *Cancel* to return to the test menu.

### 3. Ordercard Test



Ordercard Test

The Ordercard test allows you to check the functionality of the Ordercard.

To launch the Ordercard test, open the *Get more* menu and select *Test* → *Ordercard Test*.

Hold the Ordercard to the upper left corner of the handheld. The connection will be checked.

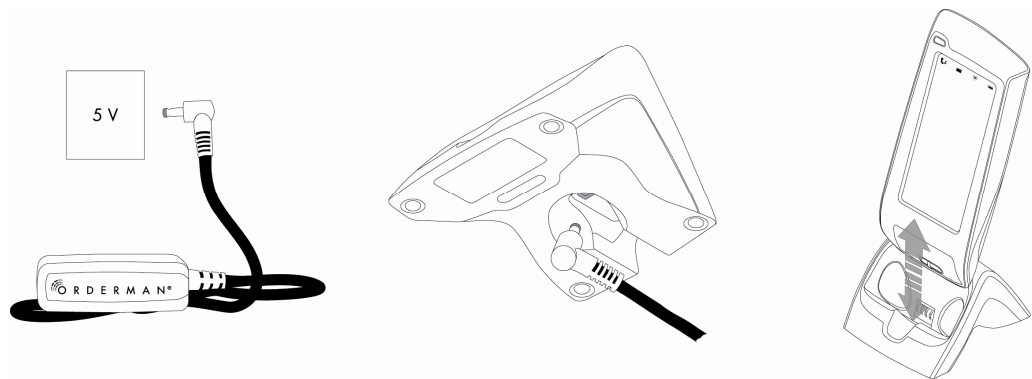
The number of the Ordercard and the number of successful scans will be displayed.

Select *Ok* or *Cancel* to return to the test menu.



## Accessories

### 1. Charging station



- Connect the charging station as described above. Output of the power supply 5V.
- When Orderman Sol is placed in the charging station the unit switches on. The current battery status will be displayed. After some 5 seconds, the display will switch to energy-saving mode. The battery display in the status bar will continue to show the battery level.
- Touch the display to reactivate the display.
- When the device is removed from the charging station the unit switches off again. Press the on/off button to turn on the unit again.

It takes approximately six hours to recharge Orderman Sol units in the charging station.



Warning: Charging temperature 0-40° C

### 2. Service station

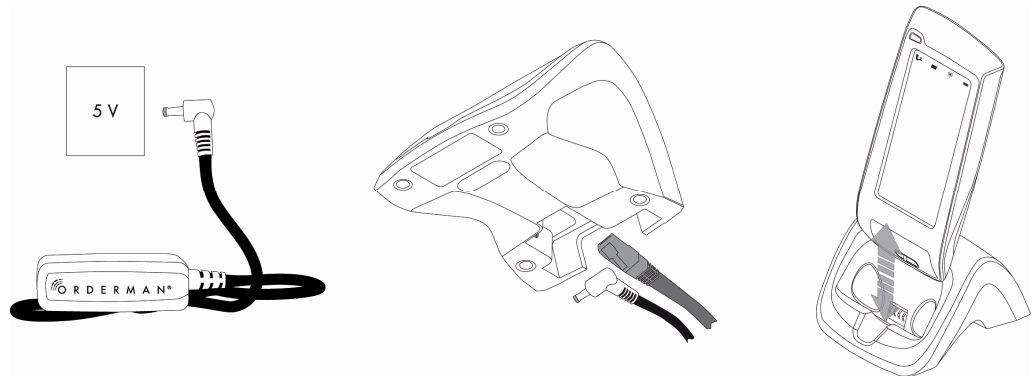
Alongside its charging function (such as charging station, approx. six hours), the service station provides an IP-based Ethernet connection to an Orderman Sol. The Ethernet cable is not included in the delivery volume.

The service station is required to update firmware.

We recommend a service station to be used with every Orderman Sol installation. It enables users to export large data packages (e.g. log files) and import new resources.

In addition, it supports IP-based remote service for handhelds.

## 2.1. Startup



- Connect the service station as described above. Output of the power supply 5V.
- When Orderman Sol is placed in the service station the unit switches on. The current battery status will be displayed. After some 5 seconds, the display will switch to energy-saving mode. The battery display in the status bar will continue to show the battery level.
- Touch the display to reactivate the display.
- When the device is removed from the service station the unit switches off again. Press the on/off button to turn on the unit again.

It takes approximately six hours to recharge Orderman Sol units in the service station.



Warning: Charging temperature 0-40° C

## 2.2. System Displays in the Service Station

The connection icon in the status bar provides information about the status of the Ethernet connection.

See also the illustrations in the following table:



Orange flashing light – Unit is contacting the service station properly; network module detected



Orange solid light – Ethernet cable is connected properly with service station; network link



Green solid light – IP found, Sol is now ready for use in the service station



Green flashing light – Hermes traffic (display illuminated)

## Technical data

### 3. Sol+ & Sol+ MSR

- Frequency range: 902.450MHz – 905.450MHz
- Transmitting power: less than 1 mW
- Range: in building up to 50 m, in open areas up to 300 m
- Coverage area: up to approx. 7800 m<sup>2</sup>
- Battery (lithium ion technology); 3.7 V, 1940 mAh
- Leak tightness: IP64 dust/splash resistant
- Dimensions: 177mm x 84mm x 25mm (LxWxH)
- Bluetooth class 2
- Ethernet 10/100Mb/s via service station
- Micro SD slot for memory card
- 3-track magnetic strip reader (Sol+ MSR only)
- Operating time: up to 18 hours
- Charging time:     with charging station or service station approx. 6 hrs.  
                              with dual battery charger approx. 1 hr.
- Operating temperature: -5°C to +50°C (storage temperature: -10°C to +60°C)
- Charging temperature: 0° C to +40°C

### 4. Charging station

- Supply voltage: 5 V power supply –1A
- Power supply unit:
  - Input voltage 100V to 240V, 50-60Hz
  - Max. power consumption 150mA
- Dimensions: 90 x 60 x 102 mm
- Operating time: The charging station is designed for continuous operation.
- Charging time: approx. 6 hours
- Weight: 215g
- Operating temperature: 0° C to +40°C
- Storage temperature: -20°C to +60°C

## **5. Service station**

- Supply voltage: 5 V power supply –1A
- Power supply unit:
  - Input voltage 100V to 240V, 50-60Hz
  - Max. power consumption 150mA
- Dimensions: 110 x 169 x 120 mm
- Operating time: The service station is designed for continuous operation.
- Charging time: approx. 6 hours
- Weight: 392.5g
- Operating temperature: 0° C to +40°C
- Storage temperature: -20°C to +60°C

Ethernet cable is not included in delivery volume.

## **6. Compliance Statement**

FCC ID: A9CSOL090X

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.