

QuhaSento MP

USER MANUAL

Quha Sento MP Contactless Multipurpose Puff Switch

Welcome to the Quha Sento MP Contactless Multipurpose Puff Switch. Before you start using your Quha Sento MP, for the best user experience, please read this manual carefully first.

Quha Sento MP is a generic contactless multipurpose puff switch. Sento MP can be used as a switch in various purposes such as computer mouse clicks, environmental control and patient calls.



Figure 1

Quha Sento MP Controls and Main Parts

- 1. Quha Sento MP main unit
- 2. Sensor arm
- 3. Sensor arm connector
- 4. Sensor arm connector port
- 5. Puff sensor
- 6. UNC camera thread
- 7. Mounting bracket

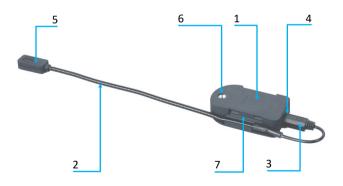
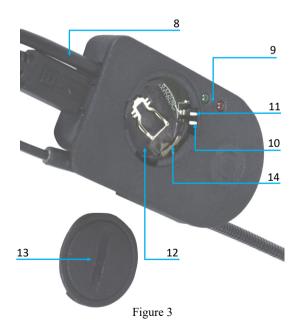


Figure 2

Quha Sento MP Controls and Main Parts

- 8.3.5 mm connector cable
- 9. Indicator lights
- 10.Switch for puff sensor sensitivity
- 11.Switch for buzzer sound indicator
- 12.Battery slot
- 13.Battery slot cover
- 14.Metal lid



Installation

Before using Quha Sento MP there are a few things to do.

- 1. Insert a battery into Sento MP.
- 2. Place Sento MP in the mount.
- 3. Select the settings (Figure 3: 10, 11) to be used with Sento MP.
- 4. Connect the 3.5 mm connector (Figure 3: 8) into the device to be controlled with the switch.

Inserting the Battery

- Open the battery slot cover (Figure 3: 13) with a coin or battery edge.
- 2. Insert the battery to the battery slot by first placing the battery edge under the metal lid (Figure 3: 14) and then pressing the battery downwards until it clicks. Battery orientation is correct when the battery label texts are visible.
- 3. Close the battery slot cover with a coin or battery edge.

Removing the Battery

- 1. Open the battery slot cover (Figure 3: 13) with a coin or battery edge.
- 2. Push the metal lid (Figure 3: 14) towards the battery side to release the battery.
- 3. Close the battery slot cover with a coin or battery edge.

Attaching Sento MP to a Mount

Quha Sento MP has a standard UNC 1/4" camera thread (Figure 2: 6) on its rear side. Attach Sento MP to a mount with this thread

Alternatively, the mounting bracket (Figure 2: 7) can be used to mount Quha Sento MP to Quha Light Eyeglass Clip.

Settings

There are two switches (Figure 3: 10, 11) that control the user selectable features of Sento MP. They are located next to the indicator lights under the battery slot cover. The switches can be set using a flathead screwdriver included in the sales package.

Sensitivity switch changes the sensitivity of the puff sensor.

Up - Low sensitivity
Down - High sensitivity

Buzzer switch turns the switch buzzer sound indicator on and off

Up - Buzzer sound off
Down - Buzzer sound on

High sensitivity setting can be used when the user's respiratory function is limited or more puff range is required. Low sensitivity is useful if the puff sensor picks unwanted clicks.

Indicator Lights

There are two indicator lights on the front panel of the Quha Sento MP. When the puff sensor detects air flow that activates the switch, one of the indicator lights is lit. Green light indicates the battery condition is good for use, red light indicates the battery needs to be replaced soon.

Sento MP can be used as a switch in various purposes such as computer mouse clicks, environmental control and patient calls.

Using Quha Sento MP

Quha Sento MP detects the air flow - puff - coming from the user's mouth. The puff sensor is located at the end of the sensor arm. The more air flow there is to the sensor, the more accurately the switch can be controlled. Therefore, it is necessary to position the sensor so that the air flow can reach it.

The flexible sensor arm is adjusted so that the sensor is located in front of the user's mouth at a comfortable distance. A typical distance is 1-5 cm (0.4-2 inch). Try different positions to find the one most suitable for you. Because the air flow strength varies greatly between users, it is possible to find a good position with some experimenting in a few minutes.

Testing the switch is simple. Puff into the sensor and a click is performed. Puff and keep puffing into the sensor and a long click (dragging) is performed as long as the puff continues.

Compatibility

Quha Sento MP is compatible with devices with a 3.5 mm switch connector.

Troubleshooting

A click is not happening every time when puff is made

Make sure that the sensor arm is positioned close enough to the mouth and that the air flow reaches the sensor.

Random clicks

Talking creates an air flow similar to puffing into the sensor and the sensor picks this up. A good way to prevent random clicks created by talking is placing the puff sensor in front of the chin slightly lower than the lower lip. Another way is to increase the distance between mouth and the sensor.

If the puff sensor rubs the user's clothing or skin, this may be picked up by the sensor.

Technical Specifications

Dimensions Length 63 mm, width 40 mm, height 13 mm,

Sento arm length 250 mm and weight 45 g (without the cable). Cable length 180 cm.

Battery Easily replaceable CR2032 button cell lithium

battery, battery life upto 1.5 years depending on

use.

Mounting 1/4" UNC thread (camera mount)

Output 3.5 mm audio plug (mono),

Opto-isolated output, load current up to 100 mA,

isolation 1500 VRMS

Operating temperature

From +10°C to +35°C (from +50°F to +95°F)

Storage temperature

From +0°C to +45°C (from +32°F to +113°F)

Keeping Quha Sento MP Clean

As a contactless puff switch, Quha Sento MP is easy to keep clean. If dust or saliva gets into the puff sensor, it can be cleaned with a physiologically sensitive area cleaning liquid, such as Würth Multiclean.

Product Disposal

When the device has reached its end-of-life it should be recycled as electric and electronic waste.



European Compliance

The manufacturer of this product confirms that this product complies with the European Union regulations for safety, health, environmental and consumer protection.



FCC Compliance

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.



Limited Warranty

Warranty on the product is 2 years from the date of purchase.

Product and Safety Information

The device includes sensitive electronic components and the user should not try to open or service the device themselves.

This device is for indoor use only. Do not allow the device to get wet.

Any modifications not approved by Quha could void the user's authority to operate the device.

Keep the device clean. Do not clean the device with solvents, toxic chemicals or strong detergents as they may cause damage to the product. Store your device only on flat surfaces. Do not drop or shock the product as it may be damaged.

Follow all instructions in the user guide to ensure the longest lifespan of your device. Damage or poor performance caused by failure to follow warnings and instructions can void your manufacturer's warranty.

Do not store your device near magnetic fields. Your device may malfunction from exposure to magnetic fields.

This product is RoHS compliant.

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