Octopus Mobile Reader

(Compatible with Bluetooth enabled iOS mobile devices)

Operating Manual
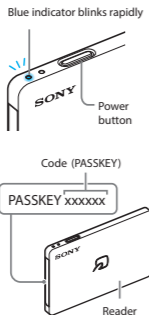

Setup (Please read this first)

Notes

- The compatible iOS versions will be updated from time to time for the Octopus App, please visit www.octopus.com.hk/octopus-mobile-reader for the latest update before you start.
  * Operation is not guaranteed on all iOS devices that meet the recommended requirements.
  * The Reader may not function properly, depending on the status of the Octopus App on the iOS device.

Pairing the Reader with the iOS mobile device (for the first time)

Before using the Reader for the first time, the Reader must be paired with the iOS device via Bluetooth.

1. Download the Octopus App onto the iOS mobile device.
2. Enable Bluetooth on the iOS device: **[Settings]** > **[Bluetooth]**. Once completed, **[open Octopus App]** to proceed with pairing.
3. Select **[Settings]** > **[Octopus Mobile Reader]** > **[Connect Now]**, then **[Searching Octopus Mobile Reader…]** will be shown on the screen.
4. Press the power button on the side of the Reader until the blue indicator blinks rapidly and the **[password input screen appears]**.
   If there is no response after pressing the button, please charge the Reader battery using the USB cable.

   Blue indicator blinks rapidly
   Power button

5. When the **[Bluetooth Pairing Request]** screen appears on the iOS device and the code entry request appears, **[enter the 6-digit code (PASSKEY) printed on the side of the Reader]**, and then tap **[Pair]**.
   If the blue indicator stops blinking rapidly while pairing is in progress, please perform step 4 again.

   Code (PASSKEY)
   PASSKEY xxxxxx
   Reader

   When pairing is completed, please follow the instructions and place Octopus on the Reader to use the services provided by the Octopus App. Pairing is required to be completed once only. For subsequent use of the Octopus App, please follow the instructions and connect to the Reader directly.

Special case (when pairing is required again)

Each Reader can only pair with a single iOS device and one at a time. If the Reader is paired with another iOS device after you use the Reader, please follow the steps below to pair the Reader with your iOS device again:

1. Enable Bluetooth on the iOS device: **[Settings]** > **[Bluetooth]**, then "PaSoRi" will be shown under "My Devices".
2. Tap **[ⓘ]**, then select **[Forget This Device]**
3. **[Open Octopus App]** > then select **[Settings]** > **[Octopus Mobile Reader]** > **[Connect Now]**.
4. Follow step 4 to 5 of "Pairing the Reader with the iOS mobile device" to pair the Reader with your iOS device again

Please follow the above procedures if you would like to pair your iOS device with a new Reader.

Notes

- Operating procedures may vary depending on the iOS device application you are using. For details, please refer to the FAQ section on the Octopus App.
- The Reader will not function properly if two or more Octopus are placed on the Reader at the same time.
- This Reader only works with Octopus with a 9-digit Octopus number (eight digits plus one single digit inside the bracket).

Features

- This Reader is a mobile reader/writer for Octopus that supports Bluetooth low energy technology*.
- *Bluetooth low energy technology: Communication with devices that support Bluetooth low energy technology is possible (Communication between the Reader and all Bluetooth low energy technology devices is not guaranteed).*
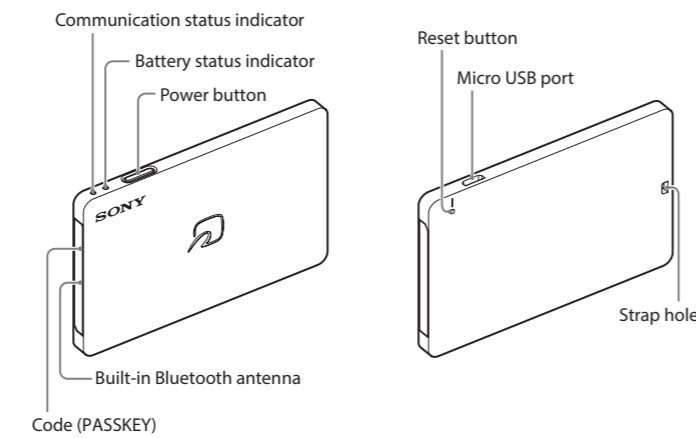
Supplied Accessories

- Octopus Mobile Reader
- Card holder
- USB cable

Reader Specifications

Dimensions	Approx. 87.6 x 56 x 5.5 mm (3 1/2 x 2 1/4 x 1/4 in) (W x H x D)
Weight	Approx. 30 gm (1 oz) (excluding USB cable and card holder)
External interface	Micro USB (exclusively for battery charging)
Cable length	Approx. 50 cm (19 in)
Operating temperature	3℃ to 35℃ (41°F to 95°F)
Operating humidity	10% to 90%
Storage temperature	-20℃ to +60℃ (-4°F to +140°F)
Operating voltage	5 V DC (via USB during battery charging)
Current consumption	Maximum approx. 500 mA

Design and specification are subject to change without notice.

Structure of the Reader

Communication status indicator
Battery status indicator
Power button
Reset button
Micro USB port
Strap hole
Built-in Bluetooth antenna
Code (PASSKEY)

Power Button

The length for pressing the power button and the indicator displays vary, depending on the operation you intend to perform with the power button:

Operation	Button press	Indicator display	
		Communication status indicator (blue)	Battery status indicator
Pairing	Press until **[password input screen appears]**	Blink rapidly	–
Turn on the Reader [1]	Press for 2 seconds	Blink for 3 times	–
Turn off the Reader	Press for 2 seconds	Light up for 1 second together	
Verify the Reader's status	Press once / During power ON	Blink	Blink [2]
	Press once / During power OFF	–	Blink [2]

1) Connection to paired iOS device will be established.
2) Please refer to the "Indicator Displays" section for the meaning of different colors for the Battery status indicator.

Notes

- If the Reader has never been paired with iOS device, the power will automatically turn off after turning on the Reader then idle it for 3 minutes, the "Turn off the Reader" indicator display will occur.
- After pairing, the Reader will not turn off automatically. It will be in standby mode unless you turn it off with the power button.
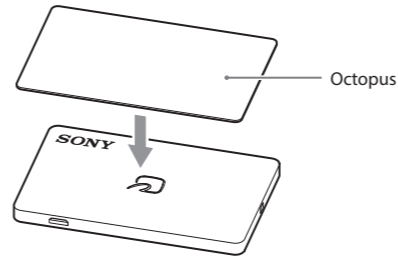

Basic Operations

Placing Octopus (including Octopus products such as card, ornament, mini Octopus or watch)

Place the Octopus steadily over the Reader until there is an indication that the required service is completed.
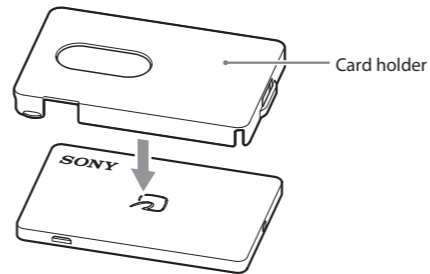
Notes

- The battery will deplete more quickly during operation with Octopus. To reduce the duration of such operation, it is recommended to place the Octopus on the Reader properly before operation.
- Do not cover the built-in Bluetooth antenna position with your hand during operation; otherwise the Bluetooth connection may be disrupted.
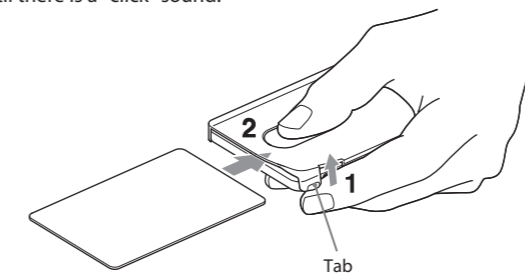
Octopus

Using the Card Holder

Align the card holder with the Reader as shown below, then press on it until there is a "click" sound.

Card holder

Inserting Octopus card in the Card Holder

1. **Raise the card holder from the Reader by gently lifting up the tab of the card holder.**
   There will be a gap between the Reader and the card holder.
2. **Insert Octopus card into the card holder.**
   After fully inserting Octopus card into the card holder, please press down the tab until there is a "click" sound.

   Tab

3. To remove Octopus card, please raise the card holder by the tab as you did in step 1, and then slide the Octopus card out.
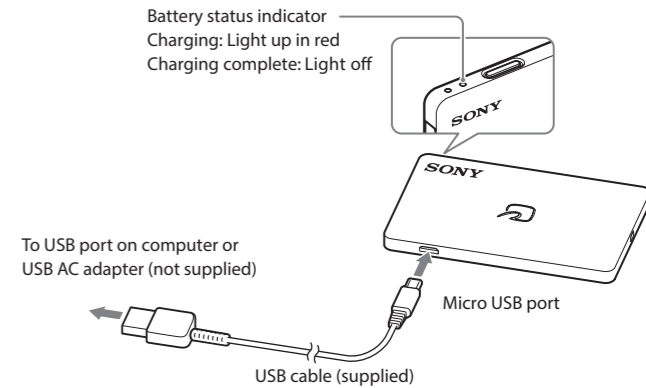
Notes

- Please verify that the card holder is firmly attached with the Reader. If the card holder is not attached properly, the inserted Octopus card may slip out.
- When Octopus card is placed on the Reader with the card holder, the Reader may affect other readers from reading this Octopus card. In such case, please remove the Octopus card from the Reader before placing the card on the other readers.
- When removing the Reader from the card holder, please do so carefully to avoid cracking the card holder.
- When using a commercially available neck strap with the card holder, please be sure to attach it securely to the strap hole on the card holder.

Charging the Battery

The Reader is equipped with a built-in rechargeable battery.
Please be reminded to fully charge the battery before using the Reader for the first time.
To charge the battery, please use the supplied USB cable to connect the Reader's micro USB port with the USB port on a computer or USB AC adapter (not supplied).

The Reader's battery status indicator lights up in red while charging is in progress. The battery status indicator turns off when charging is completed. The approximate charging time is 1.5 hours from a fully discharged state to a fully charged state.
The Reader can be operated while charging is in progress.

Battery status indicator
Charging: Light up in red
Charging complete: Light off

To USB port on computer or USB AC adapter (not supplied)
USB cable (supplied)
Micro USB port

Notes

- Please charge the battery within an ambient temperature range of 5 ℃ to 35 ℃ (41 °F to 95 °F).
- Before using the Reader for the first time or after a prolonged period of disuse, it is recommended to fully charge the battery.
- Battery charging may not be feasible if the Reader is connected to a USB hub or a USB port with low current capacity.
- Battery charging is not guaranteed with all computer USB ports and USB AC adapters.
- The Reader's micro USB port is intended for battery charging only.
- Please charge the battery at least once every 6 to 12 months, even during prolonged period of disuse.

Indicator Displays

Battery status indicator

a) Battery status displays
Please press the power button once to check the battery status as indicate below:

Battery status indicator displays	Meaning
Blink in green color for 3 times	The remaining battery is sufficient
Blink in orange color for 2 times	The remaining battery is moderately sufficient
Blink in red color once	The remaining battery is very low
Blink in red color for 2 times	The battery is discharged, and the Reader cannot be operated without charging
Light off	

Notes

The battery status cannot be checked during charging.

b) Charging status displays
The battery status indicator displays as follow when charging via the USB cable (if the battery is already fully charged, the battery status indicator will not light up):

Battery status indicator displays	Meaning
Light up in red color	Charging in progress
Light up in red color → light off	Charging is completed

Communication status indicator

a) Battery status displays

After pairing has been performed, please press the power button once to check the power status (On or Off) of the Reader:

Communication status indicator displays	Meaning
Light up or blink in blue color	Bluetooth communication is in progress (i.e., the Reader is turned on)
Light off	Bluetooth communication is inactive (i.e., the Reader is turned off)

b) Octopus operation status displays

The indicator displays as follow when an Octopus is placed on the Reader with O! ePay App or Octopus App opened:

Communication status indicator displays	Meaning
Blink in blue rapidly	Read/write of Octopus in progress
Light off	Inactive communication with Octopus

Bluetooth Features

Bluetooth wireless technology allows the Reader to connect to IOS mobile devices wirelessly at close ranges, as follows:

• Bluetooth wireless technology allows connection at distances of up to about 10 m (33 ft). The effective range, however, may vary depending on the signal status and whether the signal is obstructed (by people, metallic objects, walls, etc.).
• Operation under the following conditions may disrupt the Bluetooth connection:
  – when the Reader is in a bag that has metallic components
  – when the Reader is in a backpack or shoulder bag
  – when the Reader is located in an environment with a wireless LAN, near microwaves, mobile phones, portable gaming devices, or other device with communication functions, or near other sources of electromagnetic waves.
  Although connection and Octopus reading/writing may fail in such cases, it does not indicate a malfunction of the Reader. Please modify the usage environment and conditions and try again.
• Bluetooth devices and wireless LAN (IEEE802.11b/g) devices use the same frequency ranges, so wave interferences may occur when the Reader is used near a device equipped with a wireless LAN. This may result in problems, such as slow connection speed and connection failure. In such cases, please take the following measures:
  – When connecting the Reader to an iOS device via Bluetooth, please keep a distance of at least 10 m from wireless LAN devices.
  – Keep the Reader as close to the iOS device as possible.
  – When using the Reader within 10 m of a wireless LAN device, please turn off the wireless LAN.

Maintenance

• If the Reader is dirty, please use a soft cloth or facial tissue to wipe it.
• To clean stubborn dirt, please use a soft cloth that has been soaked in a mild detergent diluted with water and then wipe the dirt thoroughly.
• Do not use alcohol, thinner, benzine, etc., as they may damage the surface coating.
• When using chemically treated wipes, please follow the instructions provided.
• Prolonged exposure to pesticides or other volatile solvents, rubber, or plastic may result in damage to the surface and ink.

Usage Precautions

1. Each Reader is assigned with a unique PASSKEY that is used for identification between the Reader and iOS device. Please be aware that if the PASSKEY registered on the iOS device via pairing does not match the PASSKEY of the Reader being used, Bluetooth connection cannot be established.
2. Please make a note of the PASSKEY and store it safely away from unauthorised parties.
3. If the Reader is placed near a metal object or an object that produces electromagnetic radiation, communication with the Octopus may fail due to electromagnetic interference. Please keep the Reader away from these objects during use to prevent interference.
4. The Reader is neither waterproof nor splashproof:
  – Exposure to or infiltration of water will corrode the interior and may result in malfunction.
  – Avoid exposure to water and operation in excessively humid environments.
  – Avoid touching the control and micro USB port areas with wet hands.

Troubleshooting

Charging the battery
* If there is no response when the power button is pressed, please charge the battery.

Resetting the Reader
* Insert a pointed object, such as a straightened paper clip, into the reset button hole, and then press the button.
   The Reader will restart. Please follow the steps on "Special case (when pairing is required again)" to cancel the pairing of the Reader and the iOS device, and then perform pairing again.

Checking Octopus website
* If an Internet connection is available, you can view the latest information and FAQ on Octopus website:
   www.octopus.com.hk/octopus-mobile-reader

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