

Oh'Care Bluetooth Bridge

Bluetooth RS 232C Serial Dongle

User's Manual

Ver. 1.0 (2017.06.26)

Oh'Care Bluetooth Bridge

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Oh'Care Bluetooth Bridge

1. The Product

1-1. The Overview

Oh'Care Bridge is a communication device that transmits and receives information on the measurement results of the diagnostic equipment. Oh'Care Bridge communicate wirelessly or the wired communication method by the Bluetooth communication method. It is a purpose to make it possible to connect to a device through D-Sub 9 Pin, Stereo Jack or the like and wirelessly connect a wired communication device. Oh'Care Bridge could be select BLE or Wi-Fi

In this manual, Oh'Care Bridge refers to Oh' Care Bluetooth Bridge.

It can be used as a wireless serial multiport used like Oh'Care Bridge. For more details, refer to the user's manual.

1-2. The outward form and detail



Figure 1. The Oh' Care Bridge Upper

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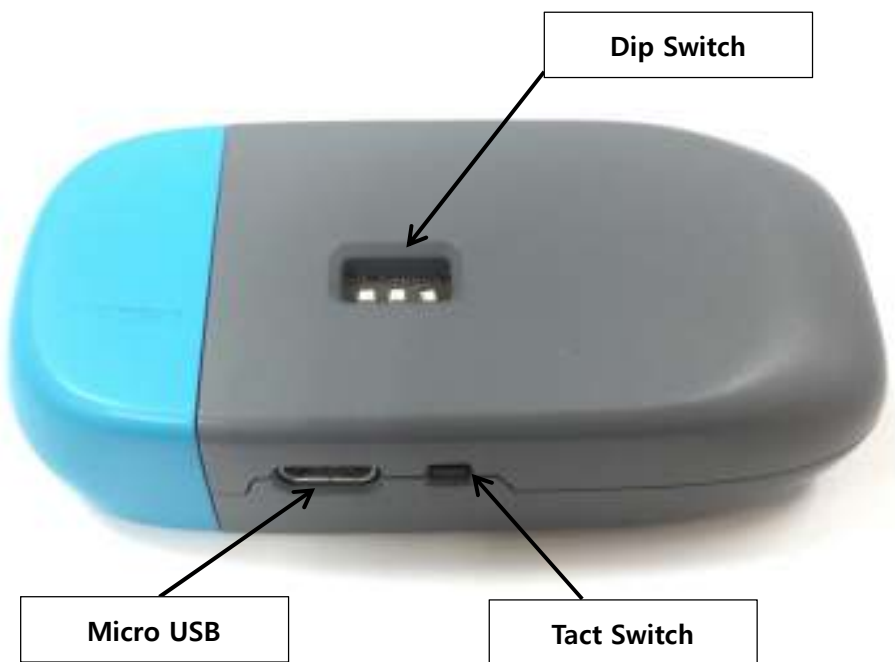


Figure 2 The Oh' Care Bridge bottom side



Figure 3 The Oh' Care Bridge Upper side

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Figure 4. The Oh' Care Bridge Back side



Figure 5. The Oh' Care Bridge D-Sub 9 Pin Connecting part

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- 2.5 ϕ Stereo Jack: Stereo Jack type product. Serial communication connection connector.
- Dip Switch: The Dip switch is for communication baud rate setting.
- Micro USB: Power supply via PC or adapter and USB communication connector
- Tact Switch: BLE is a pairing switch.
- D-Sub 9pin connector: Power supply through equipment and D-Sub 9 Pin type equipment. It is a connector using RS-232 communication standard.
- To use Wi-Fi, specific API is needed to connect with protocol. And specific command is mandatory for data transmission
- 2.5 ϕ Stereo Jack and Micro USB do not work with Wi-Fi without specific commands and API.

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2. The Product specification

- **Manufacturer:** OSANG Healthcare Co., Ltd
- **Model:** OCB-1000
- **Product Name:** Oh'Care Bridge
- **In Power:** DC 5V, 30mA
- **Size:** (H)75mm X (W)35mm X(D) 17mm
- **S/N:** OCB-1704270001
- **S/W Version:** Oh'Care Bridge SW V1.0
- **H/W Version:** Oh'Care Bridge HW V1.0
- **Communication:** BLE, Wi-Fi

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3. Products Connecting



Figure 6. Oh'Care Bridge and 2.5 φ Stereo Jack type connected cable

1. 2.5 φ Stereo Jack connection

- Oh'Care Bridge 2.5 φ Stereo Jack and OSANG Healthcare products can be connected 2.5 φ Stereo Jack type. Such as Figure 6. 2.5 φ Stereo Jack able to connect cable.
- However, the power supply for 2.5 φ Stereo Jack cable connection is supplied via Micro USB.

2. D-Sub 9 Pin connector

- Connect Oh'Care Bridge D - Sub 9 Pin connector to the equipment provided with the regular health care serial connector.
- D-Sub 9's 1 pin 5 V power supply 5 Pin powered via GND and supports RS-232 communication.

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Figure 7 . Oh'Care Bridge on D-Sub 9



Figure 8. Oh' Care Bridge connected state.

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4. Product Communication Test Method

- ① Through BLE Master, search the currently driven BLE List as shown.
- ② Pair with necessary BLE after completion of search and proceed with connecting.
- ③ You can send BLE Master side Data using Slave Oh'Care Bridge connected to equipment or PC.

- Figure. 9 shows a state in which pairing of BLE is performed and connection is made. Figure. 10 is information on devices transmitted from the Ocean healthcare device. Figure. 11 shows the results confirmed for the data transmitted and received by the BLE communication.



Figure 9. Oh' Care Bridge BLE Searching

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Figure 10. Oh' Care Bridge connecting



Figure 11. Oh' Care Bridge data communication

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5. Handling Precautions

- 1) Please do a thorough technical examination before actually applying on site. We are not responsible for any problems that may arise due to the characteristics of the radio.
- 2) Do not disassemble, repair, remodel.
- 3) As it conforms to the RS - 232 communication standard and is a product, if you connect a line that does not conform to the standard to the product, it may damage the product, so please be careful.
- 4) Please use the power supply that conforms to the standard.

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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CAUTION : Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

OCB-1000 is limited to work with OSANG Healthcare product documented in the manual only

Problems may occur when connecting to other products than below

1. Blood Glucose Monitoring Systems
(GluNEO, GluNEO Lite, Finetest Auto Coding Premium, HealthPro, Glucolab Auto Coding, Oh'Care, Oh'Care Lite)
2. HbA1c : An HbA1c measuring device gauges average blood glucose over 3 months by detecting hemoglobin
(Clover A1C)
3. Cholesterol : A cholesterol measuring device enables quick and efficient measurement of Total Cholesterol
(LipidPro)
4. Immuno Diagnosis : Through antigen-antibody reactions, SelexOn screens for diseases by extracting markers created by cardiac disorders, thyroid conditions, cancer and infectious diseases.
(SelexOn)

This device must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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