# QOCA bioreader (Non-sterile)

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User manual Model: QOCA bioreader

For in vitro diagnosis only Before use, please read this user manual carefully and follow all instructions given.

MHC418-3A

# 【Intended Use】

This device is an in vitro diagnostic device performing quantitative analysis on enzymes in human blood by using a proper enzymatic chip detection kits, and suitable for the use in hospitals and medical laboratories by doctors or medical laboratory scientists.

# [Description]

This device, utilizing EIS (electrochemical impedance spectroscopy), measures the data through a proper enzymatic chip detection kit and displays the results on the screen.

QOCA bioreader is easy to use. Simply drip the specimen on the reactive area of chip and then connect to QOCA bioreader. The device will display the quantitative results in 3-5 minutes.

This device, with built-in various enzyme concentration algorithms and corresponding detection chip kits, allows the user to measure the concentration of different enzymes.

QOCA bioreader is for in-room use only and not suitable for self-test.

Environmental pollution level: 2

### [Cautions]

- Taking out the detection chip during test may damage QOCA bioreader.
- To prevent specimen, device and environmental contamination, please clean QOCA bioreader regularly. Please clean immediately when specimen splashes or after moving the specimen to QOCA bioreader. For details, please refer to the "Clean" section in this manual.
- Put QOCA bioreader on a stable surface to prevent dropping. Avoid other objects from falling on QOCA bioreader.
- QOCA bioreader may not be able to turn on successfully due to misuse (like dropping), out of battery or other factors. In a clinical environment requiring fail-safe, it is necessary to prepare backup batteries to minimize such risk.
- QOCA bioreader should only be used in an environment within the operating temperature or humidity range. When operating in an extreme environment, please balance QOCA bioreader under the operating conditions for a certain period of time before use.
- **QOCA** bioreader is not suitable for use in a hyperbaric oxygen environment.
- QOCA bioreader may be contaminated by blood from previous tests. Please take general protective measures when using QOCA bioreader to prevent attacks of bloodborne pathogens. General protective measures refer to the standard processes and actions, including wearing gloves and medical masks, to protect the user against attacks of bloodborne and human pathogens. The aforementioned measures are based on the following consumptions: blood, bodily fluid or tissue may contain infectious substances and should be handled as a biological hazard.
- Please use the correct chip kit and corresponding algorithm to ensure a correct result. Please read the user manual of chip kit carefully before testing.
- Do not modify the device or change software/hardware settings without a written permission of Manufacturer.

### [Description of system]

QOCA bioreader system provides a kit necessary for enzymatic analysis. By using a QOCA bioreader, an enzymatic chip detection kit proper for the test item, a singleuse specimen transfer dongle and USB-C/USB-C specimen transfer cable, medical staff can check the quantitative data displayed on the screen within 5 minutes.

#### Parts identification

QOCA bioreader	QOCA Court Stat Court Stat READY Markenson Description	USB-C /USB-C cable	
Single-use specimen transfer dongle	QOCA	USB-A / USB-C power cable	

#### Accessories

- 1. Single-use specimen transfer dongle
- 2.USB-C/USB-C cable
- 3.USB-A/USB-C power cable

#### Other accessories:

1. Certified proper enzymatic chip detection kit

#### Options:

- 1. 9V Alkaline battery
- 2. Single-use transfer dongle (20 pcs/pack)
- 3. AC/DC Adapter : SHENZHEN FUJIA APPLIANCE CO., LTD,

model: FJ-SW328U0502000N

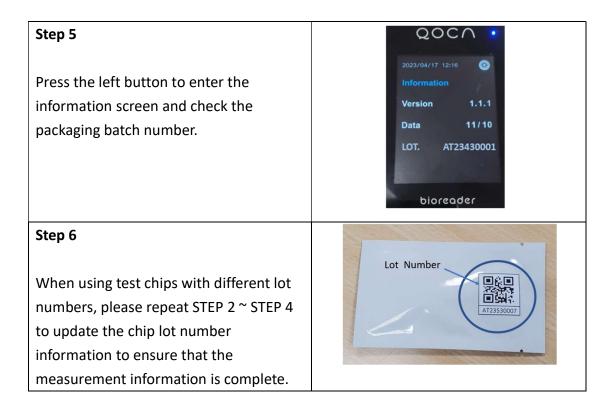
\*Options are sold separately by Manufacturer

#### Description of device



# 【Using the device】

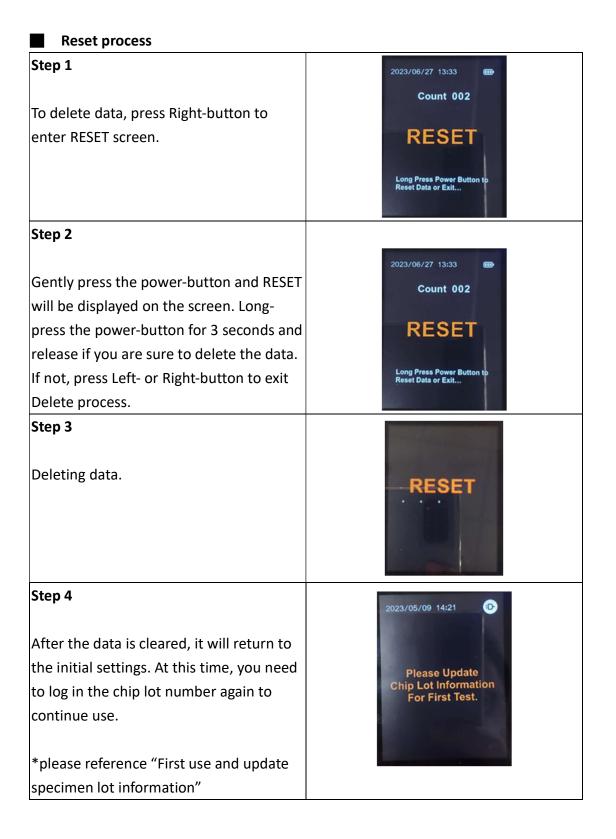
First use and update specimen lot information.		
Step 1 When you turn on the QOCA bioreader for the first time, you will see a prompt screen to update the lot number information of the speciment. * This screen only appears when using the QOCA bioreader for the first time.	2023/05/09 14:21 Please Update Chip Lot Information For First Test.	
<b>Step 2</b> Use USB-A/USB-C power cable connect the QOCA bioreader and the computer. Open the AP of MHC Tool for lot number update.	MHC tool ver.1.0 test build 【】 X       @ R Code       清空欄位   Please scan the groode and press Enter.	
Step 3 Scan the lot number on the package with 2D barcode scanner.	Lot Number	
Step 4 The QOCA bioreader will be ready for measurement after completing self- inspection.	QOCO Count 010 READY Press batter to start 2022/filled 01:37 bioreader	



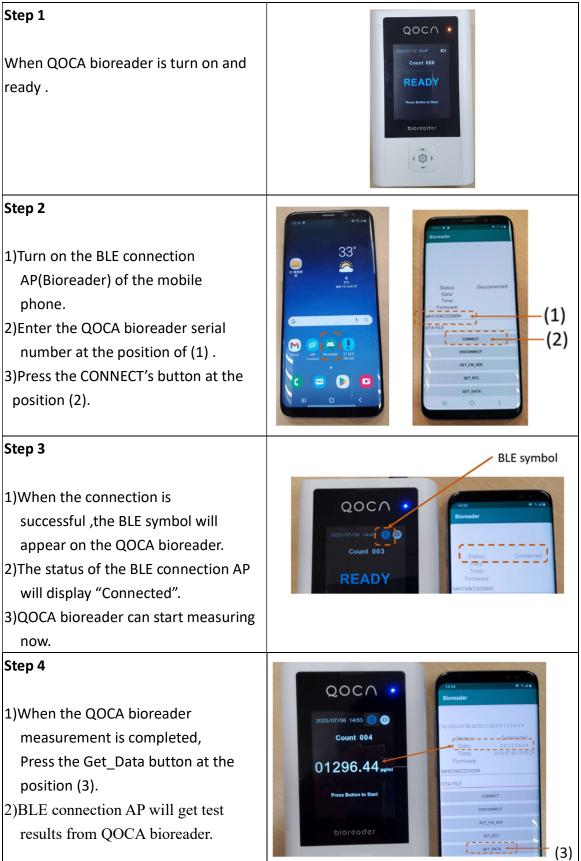
#### Operation Process

<b>Step 1</b> Connect USB-A/USB-C power cable to the	
charger port on top of QOCA bioreader. QOCA bioreader will be ready for measurement after completing self- inspection. * When powered by a 9V Alkaline battery, please turn on QOCA bioreader by	QOCO Count 684 READY Muse before bioreoder
pressing the power button on top. QOCA bioreader will be ready for measurement	
after completing self-inspection.	
<b>Step 2</b> Connect USB-C/USB-C cable to QOCA	QOCA record a size Count a size READY Providence record
bioreader and single-use specimen	bioreader
transfer dongle.	· • •
*When using, please make sure that the	
words QOCA on the transfer dongle	
stand face up.	

aocn •
Current and READY We want and Description
QOCA
2022/01/04 02:23 No 4 Data 000001.02 pport Test Time 2022/01/03 00:39 Dioreader
The states
Dioreoder



#### BLE Connection



### [Specifications]

Dimensions	126*1024(cm)
Dimensions	L 13.6 * W 8.3 * H 3.4 (cm)
Weight	195 ± 5g (battery excluded)
Operating temperature	5 ~ 40C
Operating humidity	10 ~ 80% RH
Transportation/storage temperature	-5 ~ 50C
Transportation/storage humidity	10 ~ 85% RH
IP rating	IP 22
Power supply	DC 5V / 500mA or 9V Alkaline battery
Altitude	Under 2,000m (813 ~ 1013 hPa)
Tachnologias	Electrochemical impedance
Technologies	spectroscopy (E.I.S)
Product service life	3 years

### 【Replacement Battery】

- Flip over QOCA bioreader (the display facing the table)
- Use a flathead screwdriver or coin to remove screws of battery cover.
- Take out the old battery from the chamber and replace with a 9V Alkaline battery.
- Place the battery into the chamber.
- Put back the cover and secure with screws.

# 【Clean】

After use, spray 75% alcohol or 5% bleach on a lint-free cloth and clean the enclosure gently.

#### [Electromagnetic Interference]

QOCA bioreader is compliant with the radiation interference and anti-interference requirements in IEC 61326-2-6.



Please do not use the device near a strong magnetic field to ensure normal operations.

### [Disposal of the system]

Please observe the local rules and regulations when disposing of the system or its components.

### [Maintenance]

- Please store and use the device within the specified temperature and humidity range.
- Keep QOCA bioreader out of direct sunlight or extreme environments.

### [Troubleshooting]

#### Unexpected result

When the results cannot accurately reflect the patient's condition, please retest with a new chip detection kit and specimen. If the result is still suspicious, please refer to Manufacturer section.

Problem	Cause	Action
The device	The device is out of battery,	Replace primary battery or charge
won't turn on	rechargeable battery is	rechargeable battery before use. If the
	completely discharged or the	device still won't turn on, please contact
	switch is broken.	your sales representative.
No display	The device is out of battery or	Replace primary battery or charge
	rechargeable battery is	rechargeable battery before use. Power
	completely discharged.	by connecting to USB-C port on top of
		the device. If the issue persists, please
		contact your sales representative.
Low battery	The device is out of battery or	Replace primary battery or charge
	rechargeable battery is	rechargeable battery before use.
	completely discharged.	
Failure of	USB-C connector is worn out	Replace with the same type of USB-C
continuous		cable from Manufacturer.
testing		
Cannot	Damaged buttons	Please contact your sales representative.
measure		
Incorrect	Real-time clock (RTC) out of	Please contact your sales representative.
date/time	battery	

# 【Repair】

Do not try to repair by yourself. Please contact your sales representative for repair.

# [Symbols]

Symbol	Description
8	Please read this manual carefully before use
	Manufacturer name and address
$\sim$	Manufacture date
X	Storage temperature range
LOT	Lot No.
SN	Serial No.
IVD	In vitro diagnostic device
REF	Model
$\otimes$	Do not use repeatedly
$\triangle$	Warning
IP	IP rating
<u>(%</u> )	Humidity limitation

# [Disclaimer]

Please use the original accessories and follow the specifications and regulations provided by the manufacturer. The Company is not liable for any direct or indirect damage resulting from the misuse of device.

### [FCC Statement]

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.

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Federal Communications Commission (FCC) Statement

15.105(b)

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.

15.21

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

FCC RF Radiation Exposure Statement:

- 1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- 2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. For portable operation, this device has been tested and meets FCC RF exposure guidelines. When used with an accessory that contains metal may not ensure compliance with FCC RF exposure guidelines.

### [Manufacturer]

For further assistance, please feel free to contact the Quanta Customer Service



Medical device supplier: Quanta Computer Inc. Hwa Ya Medical Devices Fab 2 Address: 1F, No. 188, Wenhua 2nd Rd., Guishan Dist., Taoyuan City, Taiwan Telephone: +886-3-3272345 Manufacturer: Quanta Computer Inc. Hwa Ya Medical Devices Fab 2

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