

Operation Manual

EzDecap™ Automated Screw Cap Decapper

Safety Precautions

Before using the EzDecap™ for the first time, please read this entire Operation Manual carefully. To guarantee problem-free, safe operation of the EzDecap™, it is essential to observe the following sections.

Intended Use

The EzDecap™ is intended to be used by trained personnel to perform screw cap decapping/ capping. In this manual, we assume that the user has knowledge of basic laboratory procedures.

General Safety



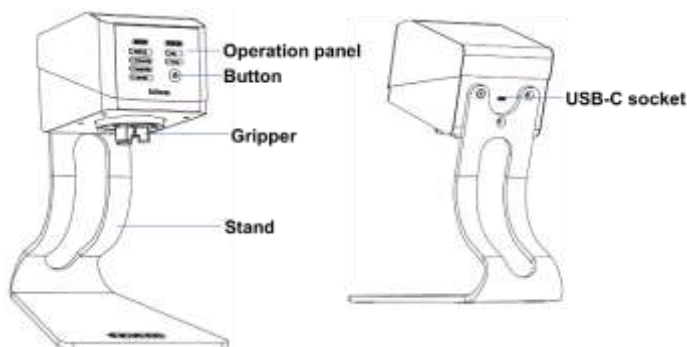
PHYSICAL INJURY HAZARD.

Using the device in a manner not specified by Blue-Ray Biotech may result in personal injury or damage to the device.

- Do not use the device in a potentially explosive environment or with potentially explosive chemicals.

- Avoid placing the device in direct sunlight.
- Install the device in a location free of excessive dust.
- Install the device in a room with a temperature of 15 - 30 °C, relative humidity 20 - 80%.
- Choose a flat, stable surface capable of bearing the weight of the device.
- Make sure the power source conforms to the required power supply specifications.
- To avoid electric shock, make sure the device is plugged into a grounded electrical outlet.
- Do not allow water or any foreign objects to enter the various openings of the device.
- The use of excessive force should be avoided.
- Only use the original power adapter supplied by the manufacturer.

Product Overview



Installation

- Plug the USB-C jack of the power adapter into the USB-C socket on the back of the device.
- Plug the power adapter into an external power source.

Operation Modes

Four operation modes satisfy users with various needs for decapping and capping screw caps.

Mode	Action
Hold Cap	Decapping with cap held → Capping the held cap
Release Cap	Decapping with cap released → Capping the cap on the top of the tube
Decap Only	Decapping and releasing cap
Cap Only	Capping the cap on the top of the tube

Decapping / Capping

- Press the button for 3 seconds to turn on the device.
- Press the button to select the mode.
- If the cap is too tight, it may need to be manually loosened firstly.
- Hold the tube in hand, and push straight up on the center of the disc to trigger the motor.

Tip: It would be easier to open the cap by holding the tube and turning it in the opposite direction when the motor is activated.

Tip: If the cap is not closed correctly, repeat steps 3 and 4.



- If the cap needs to be extremely tight, it may need to be tightened manually.
- Press the button for 3 seconds to turn off the device.

Transportation and Storage

This device should be transported and stored in an environment with a temperature of -10 - 60 °C and relative humidity of 20 - 80%.

Maintenance

Cleaning and Decontaminating

Before cleaning or decontamination, disconnect the power adapter. The decapper can be cleaned or decontaminated with 70% ethanol or a 10% commercial bleach solution.

Gripper Replacement

The grippers will require occasional replacement, particularly when the grippers can't grab the cap firmly. Use an M2 Allen key to remove the hexagon socket screws on the inside of the grippers. Replace the three grippers with new grippers.

Disposal



Do not dispose of this product as unsorted municipal waste.

Follow local municipal waste ordinances for proper disposal provisions to reduce the environmental impact of waste electrical and electronic equipment (WEEE).

European Union Customers: Call your local Blue-Ray Biotech Distributor's Customer Service office for device pick-up and recycling.

Specifications

Dimensions (L x W x H)	240 x 170 x 300 mm
Weight	3.8 kg
Cycle Time Decap/Cap	< 3 sec
Compatibility	11 - 40 mm diameter screw cap tubes
Sensing Method	Pressure sensor
Power Adapter	Input: AC100 - 240 V, 50/60 Hz; Output: DC 24 V, 2.7 A

Ordering Information

BRDC-0000	EzDecap™ Automated Screw Cap Decapper
BRDC-a001	Gripper set



For more information, visit www.blue-raybio.com
EzDecap Product Webpage

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