

8 Channel De/Capper User Manual

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1. BEFORE YOU BEGIN

Before using the 8-Channel Handheld Decapper, read these Instructions For Use and verify the contents of the package.

The package should contain the following items:

- 1 Handheld Decapper
- 1 Operator's Manual
- 1 Power Supply with International Adaptor Set
- 1 Benchtop Stand

If items are missing, contact your LVL representative.

Before first-time use, charge the Decapper by connecting it to the power supply¹ which itself is connected to a standard 100 – 240 V, 50 – 60 Hz wall socket. Allow the device to charge for 2 h in order to achieve full battery charge.

2. HAZARDS AND PRECAUTIONS

There are no hazards known associated with the 8-Channel Handheld Decapper when used in accordance with these instructions for use.

Do not use harsh solvents or chemicals for cleaning or disinfection of the decapper. Strictly avoid excessive amounts of liquid on the decapper. Liquid may penetrate into the interior of the device and cause damage of electronic parts as well as short circuit.

Do not autoclave the decapper. Do not open, modify or drop the device.

3. OPERATING CONDITIONS AND TECHNICAL DATA

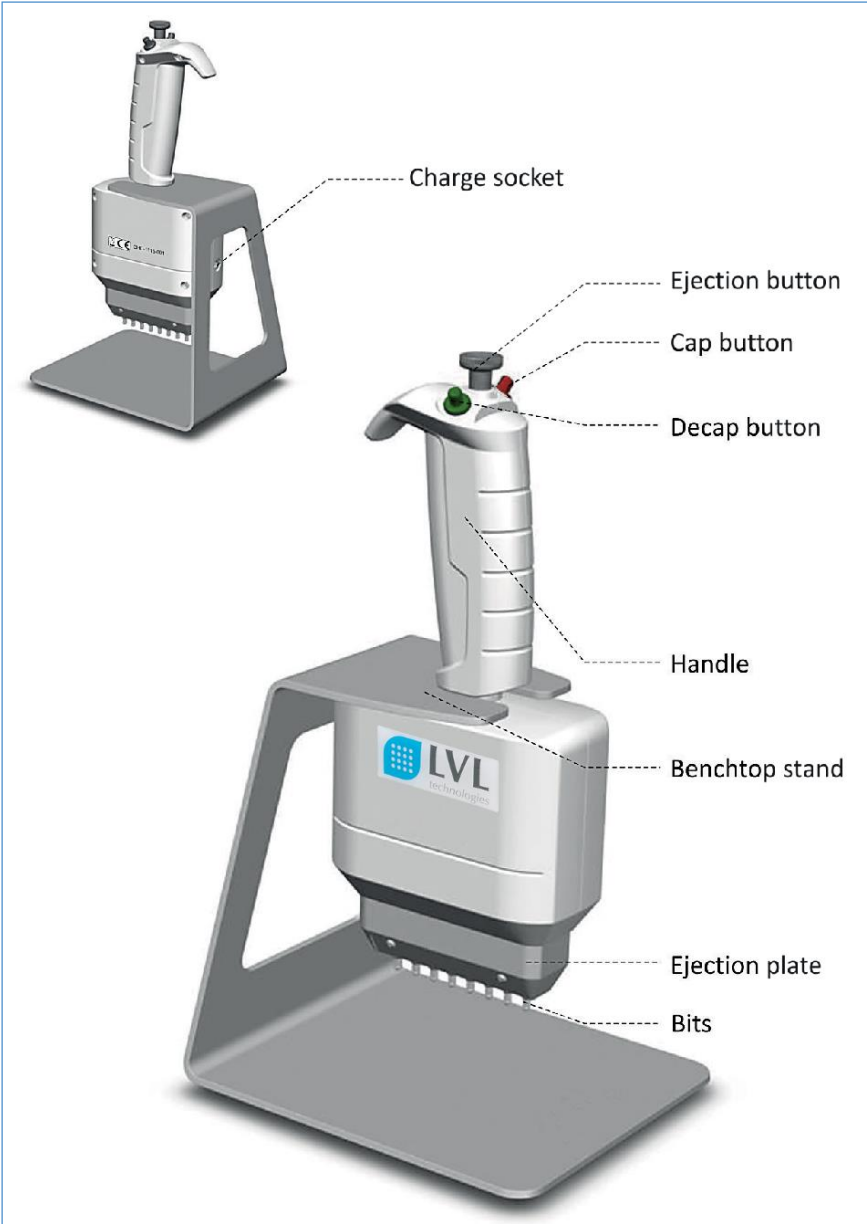
Operating Conditions and Technical Data	
Operating Temperature:	15 °C to 30 °C
Relative Humidity:	10 to 95 %, not condensing
Power Supply Input:	100 to 240 V AC ~ 50 / 60 Hz 0.35 A
Power Supply Output:	8.4 V DC 1.3 A

¹Use only power adaptor supplied with the device. Contact your LVL representative for replacement power supply.

4. INTENDED USE

The 8-Channel Handheld Decapper is an electronic device assisting in the opening and closing of external threaded tubes in 96 format from LVL technologies.

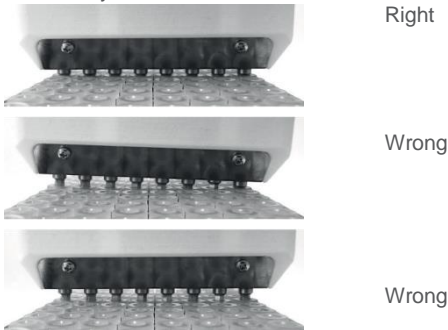
5. PARTS



6. OPERATION

6.1 Opening of Tubes

- For the opening of tubes, tubes must be presented in the corresponding tube rack.
- Fully insert the eight metal bits of the Decapper into the inner cavities of eight corresponding screw caps by pressing the Decapper down. The ejection plate should be parallel with the tubes and the bits fully inserted.



- Briefly press the Decap button (green) to initiate tube opening. While decapping, move the Decapper upwards (away from tubes).

6.2 Parking Screw Caps

- Screw caps may stay mounted onto the bits of the Decapper during all steps of pipetting into and from the open tubes. At this stage the Decapper may be set aside and stored in the Benchtop stand.
- Alternatively screw caps may be ejected into the wells of a cap carrier. Thus, multiple rows of tubes may be opened and later on re-closed after pipetting steps have been completed.

6.3 Closing of Tubes


- In case screw caps were stored in a 96-well plate, use the Decapper to pick the screw caps up from the plate. Position the Decapper with the attached screw caps directly above the tube openings thereby establishing direct contact between screw caps and tubes.
- Gently press the Decapper down against tubes and activate the Cap button (red) to initiate the capping process. While capping, press the Decapper downwards onto the tubes until rotation of all spindles has come to a complete stop.
- Release screw caps by pressing the Ejection button.

6.4 Wireless Operation

- Use the Decapper in wireless mode by removing the charger cable.
- Alarm tones will sound if the battery is low. In this case attach the charger cable to the Decapper.

- The battery may be charged during operation of the device.

Alarm tones	Battery status
Two short alarm tones after activation of Decap or Cap button	Low battery with 20 % electric charge left. Device is still operable. Battery should be re-charged.
Series of three short alarm tones after activation of Decap or Cap button	Battery charge is below process stability. Device stops. Battery must be re-charged.



Only use the battery charger which was originally supplied with the Decapper! In case of loss or defect, contact your LVL representative for a replacement.
In case of excessive development of heat, detach the charger cable. If this problem re-occurs contact your LVL representative.


During longer periods of disuse, re-charge the Decapper battery from time to time to maintain a state of battery charge of about 50-70%. This will prolong the overall lifespan of the battery. In addition, do not store the decapper at temperatures below 15°C.

The battery charger has an LED indicating the status of battery charge.

LED colour	Status
Orange	Battery charging, not fully charged.
Green	Battery fully charged. Remove charger cable.
Not illuminated	Not charging, charger cable not attached.

7. CLEANING

The device can be cleaned using a cloth dampened with water, mild cleaning solution, commercially available RNase and DNA decontamination solutions or 70% ethanol in water. See also Chapter 3 for Safety Precautions.



Do not immerse the Decapper in cleaning solution.

8. COMPLIANCE WITH THE EUROPEAN UNION'S WASTE ELECTRICAL & ELECTRONIC EQUIPMENT

This product is required to comply with the European Union's Waste Electrical & Electronic Equipment (WEEE) Directive 2002/96/EC. It is marked with the following symbol:



If you are a user located within Europe you have the possibility of returning WEEE free of charge. Please contact your local LVL representative for details on the disposal process.



Products that are considered as a biological hazard or have been medically contaminated are not to be recycled through this program, but must be treated as bio-hazard waste and disposed of in accordance with your local regulations.

Contact Information

LVL technologies GmbH & Co. KG
Theodor-Storm-Str. 17
74564 Crailsheim, Germany
Tel.: +49 7951 95613-0
Fax: +49 7951 95613-33