

HEINE QUALITY
MADE IN GERMANY

• HEINE BETA® 4 NT Rechargeable Handle



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 Please read and follow these instructions for use and keep them for future reference.

Intended Use

The BETA 4 NT rechargeable handle is designed exclusively for the operational use of medical examination instruments manufactured by the HEINE company.

 **Federal law restricts this device to sale by or on the order of a Physician or Practitioner!**

Warnings and Safety Information

 **CAUTION!** Indicates potential hazardous situations. Ignoring the corresponding instructions may lead to dangerous situations of mild to moderate extent. (Background color, yellow; Foreground color, black for color print, or black in light-gray background.)

 **NOTE!** Indicates valuable advice in terms of set up, operation, maintenance or repair, as applicable. Notes are important, but not related to hazardous situations.

Product overview

- 1 AV-Connector
- 2 Unlock button
- 3 Rheostat
- 4 Outer sleeve
- 5 Bottom insert



Setting up

Inserting rechargeable battery

To set up the HEINE rechargeable handle, unscrew the bottom insert (5) from the handle module and insert the rechargeable battery into the outer sleeve (4) as described in the rechargeable battery instructions. Screw the bottom insert back in.

 Remove insulation before use



Pull and snap apart at join.

Changing of the Li-ion L battery

Remove the bottom inserts as described above. Remove the battery from the bottom insert by pulling it away from the bottom insert and replace it with a new battery. Battery and bottom insert are connected correctly once a distinct click sound has been heard. Screw the bottom insert with the battery back into the handle.

Only charge the rechargeable handle with the NT4 charger.

Setup and operation of the HEINE NT4 charger is described in separate instruction documents.

Charging of the Li-ion L battery

The BETA 4 NT handle is designed specifically for the use of the Li-ion L rechargeable battery. To check the battery charge, the bottom inserts are equipped with a charge level indicator.

The charge level indicator shows a constant orange when the battery needs to be recharged.

With a fully discharged battery, the charge level indicator goes out and the instrument head is disabled.

Attaching the instrument heads

Automatic Connector (AV)

Attach the instrument head onto the handle from above in such a way that the connector fits into the guides on the handle head. Push the instrument into the handle head until it locks in place with an audible "click".

To remove the instrument head turn the connector (1) on the handle head to the right with the thumb and forefinger and, using the other hand, pull the instrument head up and out.

Removing the instrument

To remove the head rotate it anti-clockwise and pull it off.

Operation

To activate the instruments press the unlock button (2) and turn the rheostat (3) clockwise. The light intensity is indicated by the bar .

Position "1" shows the maximum brightness; you can set any intermediate level as desired. To turn the device off, turn the rheostat back to position "0".

Hygienic Reprocessing

Instructions on hygienic reprocessing must be adhered to, based on national standards, laws and guidelines.

Classification according to KRINKO: non-critical

Spaulding Classification USA: non-critical

 Allow the device to cool down before reprocessing.

Before reprocessing, disconnect the device from the power source.

In the event of suspected contamination, carry out hygienic reprocessing of the instrument.

The described reprocessing measures do not replace the specific rules applicable for the establishment.

Only the reprocessing agents and procedures called out in this instruction for use are approved.

The reprocessing is to be carried out by persons with adequate hygienic expertise

Observe the instructions of the manufacturer of the reprocessing media.

 Ensure that the instrument is completely dry after reprocessing before you use it again.

Procedure

Clean and disinfect the handles manually (wipe clean and wipe disinfect).

Recommended agents

Cleaning agent, if necessary: enzymatic (e.g. Cidezyme® by ASP®)

Disinfectant agent: alcoholic and/or quaternary ammonia compounds (e.g. SUPER Sani-Cloth® by PDI®, Sani-Cloth® AF3, by PDI®, Sani-Cloth® HB by PDI®)

Maintenance

The maintenance is limited to changing the battery. The procedure is described in the section "Changing the Li-ion L battery".

Service

The device has some components serviceable by the end user.

General Warnings

-  Check the correct operation of the device before use! Do not use the device if there are visible signs of damage.
- Do not use the device in fire- or explosive risk area (e.g. oxygen saturated or anaesthetic environments). This product is not allowed to be entered or used in strong magnetic fields like MRI scanners.
- Do not modify the device.
- Use only original HEINE parts, spare parts, accessories and power sources.
- Repairs shall only be carried out by qualified persons.
- Turn the handle off during the charging process.
- The handle is not designed for continuous use. The operating time of the handle depends on the maximum operating time of the examination head.

General Notes

-  The warranty for the entire product is invalidated if non-genuine HEINE products or non-original parts are used and if repairs or modifications are made to the device by persons not authorized by HEINE. For more information, please visit www.midmark.com.
- The expected life cycle, when the device is normal used and the warning and safety information as well as the maintenance instructions are observed, is up to 10 years.
- Beyond this period, the product may continue to be used if it has been determined to be in safe and good condition.
- If you don't use the device for a longer period of time, please remove the batteries in advance.
- Ensure that moisture does not penetrate the area around the rechargeable battery and the bottom insert.
- Check the rechargeable batteries regularly. In case of any abnormalities in the operating or recharging times, replace the rechargeable batteries.
- If the rechargeable battery has not been recharged for a long period it may discharge automatically.

Precautions for HEINE rechargeable batteries

-  Do not put into fire, do not short-circuit, do not modify, do not sterilize, do not drop, do not expose to severe shocks or to direct sunlight.
- Dispose of batteries in the event of visible or presumed damage (e.g. leaking liquid, mechanical damage).
- The batteries can be damaged by liquid. They must not be rinsed in running water or submerged under water.

Disposal

- The product must be recycled as separated electrical and electronic devices. Please observe the relevant state-specific disposal regulations.
- Dispose at your local collection point.

Technical specifications

Environmental conditions for operation	+10 °C to +35 °C 30 % to 75 % rel. humidity 700 hPa to 1060 hPa
Environmental conditions for storage	+5 °C to +45 °C 45 % to 80 % rel. humidity 500 hPa to 1060 hPa
Environmental conditions for transport	-20 °C to +50 °C 45 % to 80 % rel. humidity 500 hPa to 1060 hPa
Recommended charging temperature for the rechargeable batteries	+10 °C to +35 °C

Technical specifications of the HEINE rechargeable batteries

Cell type	Lithium-ion technology
Rated voltage	3.7 V
Capacity	2300 mAh
Charging time	approx. 2 h
Dimensions	Ø 26 x 83 mm
Weight	62 g

Explanation of utilized symbols

The following symbols are used on the device or on the packaging:

	Catalogue- or order number
	Manufacturer
	Date of manufacture
	Product bearing this symbol may not be disposed of together with general household waste, but instead requires separate disposal according to local provisions. (European Waste Electrical and Electronic Equipment Directive, WEEE)
	Dispose at your local collection point
	Temperature limits in °C for storage and transport
	Temperature limits in °F for storage and transport
	Humidity limitation for storage and transport
	Pressure limitation for storage and transport
	Fragile, handle with care!
	Keep dry!



Follow instructions for use!
(Background color, blue; Foreground color, white for color print,
or white on black background.)



Direct current DC

Manufacturer

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