

## HEINE BETA® 4 Handle Range – Next-generation energy management

- ∴ **One handle for all applications:** A well thought out range combines everybody's needs and all technologies. Choice of power sources from basic alkaline batteries up to latest Li-ion technology.
- ∴ **4 handle options:**
  - **BETA drycell handle**
  - **BETA 4 USB rechargeable handle** with USB cord and medical approved plug-in power supply
  - **BETA 4 NT** and **BETA 4 SLIM NT rechargeable handle** for NT4 Table Charger
- ∴ **Compatibility during your entire career.** The new BETA4 Rechargeable Handles are compatible with all 3.5V XHL and LED HEINE instruments.
- ∴ **Complete freedom of choice:** One basic handle for any situation. Decide between dry-cell or rechargeable; enhanced mobility with USB charging or convenient desk charging in the new HEINE NT4 Table Charger.

### HEINE BETA® Handle Module



The handle module X-000.99.010, 145 mm x 30 mm dia., is the basis of every BETA handle. By adding the appropriate bottom inserts it is possible to assemble any of the handles shown on this page. A BETA battery handle can also be converted to a rechargeable handle in this way. All BETA handles feature short-circuit protection and a continuous ceramic brightness control.

**BETA handle module**

**X-000.99.010**

### HEINE BETA® Battery Handle



**BETA Battery Handle**

**2.5V**

BETA battery handle  
(batteries not included; appropriate batteries: IEC LR14)

**X-001.99.118**

BETA Bottom insert

**X-000.99.119**

### HEINE BETA® SLIM Battery Handle



Dimensions: 135 mm x 19 mm dia. Weight: 180g.

A compact handle with automatic connector for those who prefer a slim handle. Batteries not included.

**BETA SLIM battery handle**

**2.5V**

for 2 alkali-manganese batteries, size AA

**X-001.99.105**



## HEINE BETA® 4 Rechargeable Handles

### Next-generation energy management

**EXCLUSIVELY AT HEINE**

- Exclusive Automatic Connector
- Li-ion technology
- Charge Status Indicator
- USB – flexible and convenient charging option

- **High-quality metal construction** for strength and durability.
- **Exclusive Automatic Connector with locking design.** No metal on metal friction which can wear out over time, for a secure fit for the lifetime of your instruments.
- **Deep Battery Discharge Protection:** Integrated safety system protects your investment by preventing batteries from completely draining; thus ensuring maximum battery life.
- **Familiar brightness control:** Rheostat for continuous brightness control with power level indicator.
- **Li-ion technology:** no “memory effect”. Charge your handle how you like without worrying about charge level or battery condition.
- **Extended ON time:** work typ. 6 weeks between recharging with LED instruments.
- **Quick charge.**
- Slightly knurled finish of the handle provides a **non-slip grip but is easy to clean and disinfect.**
- **Charge Status Indicator** in the bottom insert: the indicator shines orange if the battery needs to be recharged. In the BETA4 USB Handle the indicator blinks green during the charging process and shines permanently green as soon as it is fully charged.

#### BETA 4 NT rechargeable handle for NT4 table charger



- **Ready-to-use Function.** Handles switch ON & OFF automatically when placed into charger. Set your desired brightness level once and it stays there every time you use your instrument. Also prevents battery damage and premature bulb burn outs if the instruments are accidentally left on.

	3.5V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery and BETA4 NT bottom insert	X-007.99.396
BETA4 NT bottom insert	X-002.99.394
Li-ion rechargeable battery for BETA 4 rechargeable handle	X-007.99.383

#### BETA4 USB Li-ion rechargeable handle



- **Maximum safety.** You can charge your HEINE BETA 4 USB handle with any USB plug or other USB power source, with absolute peace of mind. The BETA4 USB handle has an integrated, exclusive Galvanic Separation Module that protects the handle, and the user, even if a faulty or inferior plug is used; thus preventing the possibility of the full mains voltage flowing directly to the handle. We do however recommend the use of a medical approved plug-in power supply.

	3.5V Li-ion
Rechargeable handle complete with Li-ion rechargeable battery, BETA4 USB bottom insert, USB cord with medical approved plug-in power supply and handle rest	X-007.99.388
Rechargeable handle complete with Li-ion rechargeable battery and BETA4 USB bottom insert (without additional accessories)	X-007.99.387
Li-ion rechargeable battery for BETA4 rechargeable handle	X-007.99.383
BETA4 USB bottom insert	X-002.99.395
USB Cord [01] with E4-USB plug-in power supply [02]	X-000.99.303
E4-USB Medical approved plug-in power supply [02]	X-000.99.305



### HEINE BETA® 4 SLIM NT Rechargeable Handle



Dimensions: 135 mm x 19 mm dia. Weight: 180g.

A compact handle with automatic connector for those who prefer a slim handle. Rechargeable in NT4 table charger fitted with the small adaptor ring.

<b>BETA4 SLIM NT rechargeable handle</b>	3.5V Li-ion
Rechargeable handle complete with rechargeable battery M3Z 4 NT Li-ion and BETA4 SLIM NT bottom insert	<b>X-007.99.474</b>
BETA4 SLIM NT bottom insert	<b>X-000.99.110</b>
Rechargeable battery M3Z 4 NT Li-ion	<b>X-007.99.380</b>

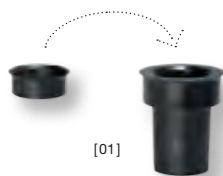
### HEINE® NT 4 Table Charger



Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm.

With the appropriate adaptor set all BETA4 NT and BETA4 SLIM NT rechargeable handles can be charged in the NT 4 table charger. The same applies to all Standard F.O. 4 NT, F.O. 4 SLIM NT and F.O. 4 SHORT NT laryngoscope rechargeable handles.

- ∴ **Innovative, compact design.** Practical and space-saving.
- ∴ **Two independent charging wells.** Complete functionality for one or two handles at a time.
- ∴ **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- ∴ **Cannot be overcharged.** Charger switches off automatically when the battery is fully charged.
- ∴ **Charge status indicator.** Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.



[01]

<b>NT 4 table charger</b>	
without handle, with adaptor. For BETA4 NT rechargeable handles, Standard F.O. 4 NT and F.O. 4 SHORT NT laryngoscope rechargeable handles. BETA4 SLIM NT rechargeable handles and F.O. 4 SLIM NT laryngoscope rechargeable handles (Adaptor set required X-000.99.086).	<b>X-002.99.494</b>
Adaptor set (two pieces) for BETA4 SLIM NT rechargeable handles and F.O. 4 SLIM NT laryngoscope rechargeable handles [01]	<b>X-000.99.086</b>

## HEINE BETA® Rechargeable Handles

## Handle Range for NT300 Table Charger

Rechargeable Handles shown here are only compatible with previous generation systems and the NT300 Table Charger.



<b>BETA L Li-ion rechargeable handle</b>	3.5V Li-ion L
Rechargeable handle complete with Li-ion rechargeable battery and bottom insert	<b>X-007.99.395</b>
BETA L Bottom insert with charge status indicator	<b>X-002.99.396</b>
Li-ion rechargeable battery for BETA L rechargeable handle	<b>X-007.99.383</b>



<b>BETA NT NiMH rechargeable handle</b>	3.5V NiMH
Rechargeable handle complete with NiMH rechargeable battery and bottom insert	<b>X-002.99.411</b>
BETA NT Bottom insert	<b>X-002.99.412</b>
NiMH rechargeable battery for BETA NT rechargeable handle	<b>X-002.99.382</b>



<b>BETA SLIM NiMH rechargeable handle</b>	3.5V NiMH
135 mm x 19 mm Ø, rechargeable handle with NiMH rechargeable battery and bottom insert	<b>X-002.99.471</b>
NiMH rechargeable battery for BETA SLIM rechargeable handle	<b>X-002.99.106</b>

### HEINE Large Battery Handle



Dimensions: 165 mm x 37 mm dia. Weight: 212g without batteries, 505g with batteries.

A large handle for 2 alkali-manganese batteries IEC LR20/D cells.  
Designed for countries where larger batteries are still preferred.  
(Only suitable for certain instrument cases.) Batteries not included.

<b>Large battery handle</b>	<b>2.5V</b>
for 2 alkali-manganese batteries, size D	<b>X-001.99.120</b>

### HEINE mini 3000® Battery Handle



Innovative, compact battery handle in a high-quality, modern design.  
Suitable for all mini3000 instruments.

- ∴ **Oval, compact, stylish shape.** Lies ergonomically in the hand.
- ∴ **High-quality handle: Chrome-finish upper section/refined plastic.** Shockproof, sturdy, non-slip.
- ∴ **Attachment clip with integrated on/off switch.** Secure. Switches off automatically when returned to the pocket. 20.000 switch cycles guaranteed.
- ∴ **Screw-on end cap.** For easy battery change.
- ∴ **Threaded connector made of metal.** Prevents wear.
- ∴ **Replaceable batteries.** Size AA, or optional rechargeable battery with mini NT table charger.
- ∴ **Complete range of mini 3000 instruments.** Versatile range.
- ∴ **Registered Design.**
- ∴ **Rechargeable mini 3000 handle.** The mini 3000 battery handle can be retro-fitted with the mini rechargeable battery 2.5V NiMH and the bottom insert to update to the mini 3000 rechargeable handle. Fully-automatic charging with the mini NT table charger.

<b>mini 3000 Battery Handle</b>	<b>2.5V</b>
with two dry batteries IEC LR6 (AA size)	<b>D-001.79.021</b>



All non-rechargeable mini handles are fitted with batteries (IEC LR 6 AA size). mini 3000 handles can be supplied in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.



## HEINE® mini NT Charger Set for mini3000®

### Compact charging technology



∴ Fast charge capability

∴ Automatic charging

∴ Charge indicator

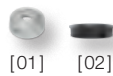
**mini NT Charger set 2.5V.** Consists of the mini NT table charger, 2 mini NT rechargeable batteries and 2 bottom inserts for the mini 3000 rechargeable handles. With this set, existing mini 3000 handles can be updated to the 2.5V rechargeable system. Optional adaptor set for mini 2000.  
mini NT table charger: Width 112mm, Height 50mm, Depth 52mm, Weight 270g.

- ∴ **Innovative, compact design.** Practical and space-saving.
- ∴ **Two independent charging wells.** Complete functionality for one or two handles at a time.
- ∴ **Fast charge feature.** Typ. 4 hours to recharge a mini3000 NiMH 2.5V rechargeable battery.
- ∴ **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- ∴ **Cannot be overcharged.** Charger switches off automatically when the battery is fully charged.
- ∴ **Charge status indicator.** Light pulses from the charging well to confirm the charging mode. Continuous light indicates that the charging process has been completed.
- ∴ **No memory effect.** Full power at any time without loss of capacity.

**Please note:** Suitable only for mini3000 2.5V NiMH rechargeable battery.



mini NT table charger and accessories	
mini NT Charger, only [01]	X-001.99.484
mini3000 Rechargeable handle complete* [02]	D-001.79.022
Rechargeable battery NiMH 2Z, only [03]	X-001.99.487
Bottom insert for mini 3000 Rechargeable Handle, only [04]	X-001.99.488



mini NT Adaptor Set for 1 mini 2000 Handle	
This set contains:	
1 bottom insert [01] and 1 adaptor for mini 2000 [02]. Together with a rechargeable battery it will allow the upgrade of one existing mini 2000 handle.	X-001.99.493



mini NT Charger Set for 2 mini 3000 Handles	
With this set, existing mini 3000 Handles can be updated to the 2.5V rechargeable system. It contains:	
mini NT table charger [01], 2 rechargeable batteries NiMH 2Z [02], 2 bottom inserts for mini 3000 rechargeable handle [03]	X-001.99.485



\*HEINE mini 3000 pocket instruments – a complete range of quality diagnostic instruments for your pocket. Available in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

### Plug-in transformer for the HEINE® ML 4 LED/OMEGA® 500



Powerful electric supply unit for the ML 4 LED HeadLight/OMEGA 500 (System voltage 6V).

Plug-in transformer for ML4 LED HeadLight/OMEGA 500	<b>X-095.16.330</b>
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### HEINE® HC 50 L Headband Rheostat

#### Fingertip Illumination Control for OMEGA 500/UNPLUGGED



[01]

- ∴ Left or right sided Mounting Options on the OMEGA Headband.
- ∴ Can be combined with EN 50 and mPack (with connection cord X-000.99.667).
- ∴ 100–240V Compatible Transformer.
- ∴ For use with OMEGA 500 with XHL and LED<sup>HQ</sup> illumination.

<b>HC 50 L Headband Rheostat</b>	<b>6V</b>
HC 50 L Headband Rheostat (without plug-in transformer and connecting cord) [01]	<b>X-095.16.325</b>



[02]

Plug-in transformer for HC 50 L Headband Rheostat [02]	<b>X-095.16.330</b>
Connecting Cord Cinch to EN 50 charger/mPack/plug-in transformer for HC 50 L, 1,6m [03]	<b>X-000.99.667</b>



[03]

## Wall Transformer HEINE® EN50 UNPLUGGED

### Intelligent charger for mPack UNPLUGGED



- ⌘ **Charger and wall-mount in one.** The wall transformer serves as an instrument holder and a charger at the same time.
- ⌘ **Intelligent charging system.** The instrument automatically switches off and goes into charging mode when placed in wall transformer. It is impossible to overcharge the mPack UNPLUGGED; the process ends automatically when charging is completed.
- ⌘ **Simultaneous charging.** The charging system charges the battery on the headband as well as an additional single spare battery.
- ⌘ **Compatible transformer (100 – 240 V).** Multi-voltage power supply unit incl. 4 different mains adaptors.
- ⌘ **Registered Design.**

Wall transformer EN50 UNPLUGGED  
(without mPack UNPLUGGED) 6V

X-095.17.310

⌘ Charger and wall-mount in one

⌘ Intelligent charging system

## HEINE® mPack UNPLUGGED

### Headband-mounted rechargeable battery



Rechargeable battery for OMEGA500 Indirect Binocular Ophthalmoscope UNPLUGGED and ML4 LED HeadLight UNPLUGGED (System voltage 6V).

- ⌘ **Lightweight with balanced weight distribution.** High level of comfort.
- ⌘ **Charge status indicator.** Display of remaining operating time.
- ⌘ Can be recharged by **wall- or plug-in transformer.**
- ⌘ **Direct operation possible while charging** through the use of the mobile plug-in transformer.
- ⌘ **Charging time:** typ. 2 hours.
- ⌘ **Operating time:** typ. 3.5 hours for ML4 LED HeadLight, typ. 2 hours for OMEGA500 UNPLUGGED, typ. 8 hours for OMEGA500 UNPLUGGED with LED.
- ⌘ **Intelligent charging system.** Automatic changeover from operating to charging mode (in the wall unit).
- ⌘ **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology. UL-compliant.
- ⌘ **Registered Design.**

⌘ Headband battery (rechargeable)

⌘ LED charge status indicator



LI POL

mPack UNPLUGGED

mPack UNPLUGGED

X-007.99.665

Transformer UNPLUGGED for mPack UNPLUGGED [01]

X-095.16.316

Lithium-Polymer rechargeable battery  
for mPack UNPLUGGED

X-007.99.680

Extension Cord from plug-in transformer UNPLUGGED to mPack  
UNPLUGGED, 2 m [02]

X-000.99.668



## HEINE® mPack

### Portable Power Pack for OMEGA 500 and ML 4 HeadLight



- ⚡ Li-ion Battery
- ⚡ Battery Capacity Indicator
- ⚡ Fast Charge



[01]



[02]



[03]

- ⚡ **Freedom from cables** that tie the user to desk, wall or static power supplies.
- ⚡ **Triple the Capacity with Li-ion Technology.** Compared with current NiCd systems. When fully charged at least 3x the capacity of conventional NiCd systems. More than double of other Li-ion systems. No memory effect.
- ⚡ **Fast Charge.** Charges to full capacity in typ. 2 hours.
- ⚡ **Charge status indicator.** Always lets you know how much operating charge you have left.
- ⚡ **Operating time:** typ. 8.5 hours for ML4 LED HeadLight, typ. 4 hours for OMEGA500, typ. 13 hours for OMEGA500 with LED.
- ⚡ **Flexible Charging Options.** Charge in the EN50 Charger base station, or with mobile plug-in transformer.
- ⚡ **Intelligent.** Automatically switches to “charge” mode when inserted in EN50. Can also be used as mains power supply even while in “charge” mode.
- ⚡ **Automatic remote power adjustment** for compatibility with all HEINE 6V and selected LED instruments.
- ⚡ **Stepless light intensity control 0.5 – 100 %.** Optimum brightness setting prevents reflexes.
- ⚡ **100 – 240V Compatible Transformer** incl. 4 plugs for world wide compatibility.

mPack	6V
EN50-m Charger Wall/Table Unit with <b>mPack</b> , (incl. 90° Angled Adaptor, Instrument support for Professional L Headband [01])	<b>X-095.17.302</b>
<b>mPack</b> with Li-ion rechargeable battery and plug-in transformer	<b>X-007.99.672</b>
<b>mPack</b> with Li-ion rechargeable battery, without transformer	<b>X-007.99.671</b>
Li-ion rechargeable battery for mPack	<b>X-007.99.676</b>
Plug-in transformer for mPack [02]	<b>X-095.16.315</b>
Plug-in 90° Angled Adaptor (for EN50 Charger/mPack) [03]	<b>C-000.33.509</b>

## Wall-/Table-Transformer HEINE® EN 50

### Modular Power Supply System/charger



∴ Modular Power Supply System

∴ Soft Start Technology

∴ Switches off automatically



The HEINE Modular Power Supply System offers unsurpassed flexibility and innovative new features. The EN50 powers OMEGA 500 and ML4 LED HeadLight. Furthermore, all other HEINE 6V products are compatible. The EN50 Charger, the mPack and HC 50 L Headband Mounted Rheostat can be combined in every conceivable configuration.

- ∴ **Modular, compact design** functions as the base for Tabletop or Wall Mounted use and as charging base for the mPack mobile charging system.
- ∴ **Upgradeable.** mPack Charging base by simple removal of the control module.
- ∴ **Soft Start Technology.** A gradual introduction of current reduces bulb “shock” and extends bulb life.
- ∴ **100 – 240V Compatible Transformer** incl. 4 plugs for world wide compatibility.
- ∴ **Registered Design.**

EN 50 Charger	6V
EN 50 Transformer table/wall unit with Rheostat Control Module (incl. 90° Angled Adaptor, Extension Cord Cinch-Cinch 2m, Instrument support) [01]	<b>X-095.17.301</b>
Rheostat Control Module for EN 50 [02]	<b>X-095.17.305</b>
EN 50 Base unit (without Rheostat Control Module) [03]	<b>X-095.17.300</b>
Plug-in 90° Angled Adaptor (for EN 50/mPack without instrument support) [04]	<b>C-000.33.509</b>
Instrument support for Headband	<b>C-000.33.511</b>

## HEINE® mPack mini

### Power source for LoupeLight 2/MicroLight 2 and SIGMA 250



- EXCLUSIVELY AT HEINE**
- Stepless light intensity control
  - Compact and lightweight
  - Simple cleaning

- **Freedom from cables** that tie the user to desk, wall or static power supplies.
- **Operating time LoupeLight 2/MicroLight 2:** Typ. 9 hours in everyday practical use. In continuous operation at full power typ. 4 hours.
- **Operating time SIGMA 250:** Typ. 11 hours in continuous operation at maximum power.
- **Charging time typ. 4 hours.**
- **Charge status indicator.** Display of remaining battery power with three LEDs. The flashing of the last LED indicates that immediate charging is required. During charging the LEDs light up one after the other.
- **Stepless light intensity control.** Optimum brightness setting between 100% and 3% reduces reflexes.
- **USB cord** with E4-USB Medical approved plug-in power supply.
- **The integrated galvanic separation module** protects the battery and the user against the consequences of defective power supplies, thus preventing the possibility of the full mains voltage flowing directly to the housing. We recommend the use of a medical approved plug-in power supply.
- **Simple cleaning.** Closed housing, no seams at the sides, few edges.
- **Compact and lightweight.** With a weight of just 95 g and dimensions of 44 x 23 x 101 mm the power source can be easily stowed.
- **mPack mini Belt Clip.** Pouch to easily secure the power source to belt or clothing.
- **Li-ion technology.** No „memory effect“, without worrying about charge level or battery condition.
- **Integrated rechargeable battery.** Can be exchanged at authorised specialist dealers.



[01]



[02]



[03]

mPack mini	6V
mPack mini with Li-ion rechargeable battery and E4-USB plug-in transformer	X-007.99.650
mPack mini with Li-ion rechargeable battery, without E4-USB plug-in transformer	X-007.99.649
mPack mini Belt Clip [01]	X-000.99.007
USB cord [02] with E4-USB plug-in transformer [03]	X-000.99.303
E4-USB Medical approved plug-in power supply for USB cord [03]	X-000.99.305