



Voltage: 230V is the standard voltage for mains instruments. If a different voltage is required, e. g. 120V, please specify when ordering.

Note: HEINE rechargeable power sources and transformers conform to the IEC 60601-1 Standard.



All 3.5V rechargeable handles are also available from HEINE with Lithium-Ion technology, except BETA SLIM and small F.O. Laryngoscope handles.

- ∴ **Double the capacity** - up to 120min working time without recharging.
- ∴ **Lightweight and convenient.**
- ∴ **No more memory effect.** Full capacity whenever needed.
- ∴ **Redesigned rheostat and handle head for better ergonomics and easier cleaning.**

The HEINE BETA® Range of Handles

One module. Multiple charging options



The handle module **X-000.99.010** 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 |
|---------------------------|---------------------|



| | |
|--|---------------------|
| BETA Battery Handle | 2.5V |
| BETA battery handle 145 x 30mm dia. (batteries not included; appropriate batteries: IEC LR14) | X-001.99.118 |
| BETA extension piece. Converts any BETA handle into a 3.5V battery handle – will not fit case. | X-000.99.020 |
| BETA Bottom insert | X-000.99.119 |

BETA L Li-ion rechargeable handle

With LED charge status display in the BETA L 3.5V bottom insert.

- ∴ **Rechargeable handle with Li-ion battery.** Fast charge in 2 hours with the NT 300 charger.
- ∴ **Rechargeable handle with charge status display in the bottom insert.** Display lights for 10 seconds when the handle is switched on or removed from the charger.
- ∴ **No memory effect.** Full power at any time without loss of capacity.
- ∴ **Updates:** Existing 3.5V BETA handle can be converted to BETA L by substituting the Li-ion L battery and BETA L bottom insert.
- ∴ **Ready to use feature:** If the handle is switched on when replaced in the charger, it automatically switches off. When removed, it switches on again at the previously - selected brightness.
- ∴ **Compatible with previous chargers** (NT200, Nicatron).



| | |
|--|---------------------|
| BETA L Li-ion rechargeable handle | 3.5V |
| BETA L Handle 145x30mm Ø, with Li-ion L rechargeable battery, complete | X-007.99.395 |
| BETA L Bottom insert with charge status display | X-002.99.396 |

: Rechargeable handle with charge status display in the bottom insert.

- ∴ **Fast charge capability / 2 h**
- ∴ **Charge status display**

The HEINE BETA® Range of Handles

NEW DESIGN



| BETA NT Rechargeable Handle | 3.5V NiMH | |
|--|-----------|--------------|
| BETA NT rechargeable handle 145 x 30mm dia. with NiMH rechargeable battery | | X-002.99.411 |
| BETA NT bottom insert | | X-002.99.412 |



| BETA TR Rechargeable Handle | 3.5V NiMH | 3.5V |
|--|--------------|--------------|
| BETA TR handle 145 x 30mm dia., with transformer. The BETA TR handle is charged by an external transformer. An LED indicates whether the handle is being charged. The special handle rest prevents it from rolling away. | | |
| | X-002.99.384 | X-007.99.384 |
| BETA TR without transformer | X-002.99.386 | X-007.99.386 |
| Transformer for BETA TR rechargeable handle | X-000.99.308 | X-000.99.308 |
| BETA TR bottom insert | X-002.99.385 | X-002.99.385 |



| BETA R Rechargeable Handle | 3.5V NiMH | 3.5V |
|---|--------------|--------------|
| BETA R 170 x 30mm dia. The BETA R 3.5V handle can be charged directly in the mains socket or outlet after unscrewing the cap. | | |
| | X-002.99.376 | X-007.99.376 |
| BETA R bottom insert | X-002.99.377 | X-002.99.377 |



| BETA Cord Handle | | 2.5/3.5/6V |
|---|--|--------------|
| BETA cord handle 145 x 30mm dia., for 2.5V, 3.5V or 6V connection, maximum cord length extended: 3m | | X-000.99.212 |
| BETA cord handle bottom insert (with cord) | | X-000.99.213 |

| Recommended power sources for BETA Cord Handle | | 2.5/3.5/6V |
|--|--|--------------|
| Table Top Transformer E9, for all 2.5V, 3.5V and 6V instruments | | X-095.13.200 |
| Plug-in transformer E7. An economically-priced power source for the 6V hand-held indirect ophthalmoscope | | X-095.16.100 |



HEINE BETA® Range of Handles - Accessories



[01] [02] [03]



| | 3.5V NiMH | 3.5V LI ION | 3.5V LI ION L |
|--|--------------|----------------|------------------|
| Rechargeable battery 3.5V for BETA rechargeable handles | X-002.99.382 | X-007.99.381 | X-007.99.383 |
| | [01] | [02] | [03] |
| BETA Belt Clip | | | X-000.99.008 |

- All full-size BETA handles can be updated to BETA L 3.5V handles by substituting the Li-ion L 3.5V battery and the BETA L bottom insert.
- Max. 4 hours recharge time with NiMH. 2 hours with Li-ion.
- Retro-compatible. All rechargeable batteries can also be charged in existing NT200 and Nicatron chargers.

Please note: The Li-ion L battery is not compatible with unmodified BETA R, TR and NT 3.5V handles and bottom inserts.

HEINE Large Battery Handle



Dimensions: 165x37 mm dia. Weight: 212 g without batteries, 505 g 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.

| Large battery handle | 2.5V |
|---|--------------|
| Battery handle for 2 alkali-manganese batteries, size D | X-001.99.120 |

HEINE BETAS LIM® Battery /Rechargeable Handle



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

A compact handle with automatic connector for those who prefer a slim handle. Rechargeable in NT300 charger fitted with the small adaptor ring. Batteries not included.

| BETA SLIM battery/rechargeable handle | 2.5V | 3.5V NiMH |
|---|--------------|--------------|
| BETA SLIM battery handle | X-001.99.105 | |
| BETA SLIM rechargeable handle with 3.5V M3Z NiMH battery | | X-002.99.471 |
| Rechargeable battery 3.5V M3Z NiMH | | X-002.99.106 |

HEINE mini 3000® Battery Handle

Patent # 102006054068.9-35

Innovative, compact battery handle in a high-quality, modern design. Suitable for all mini 3000 instruments.



- ∴ **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.
- ∴ **Oval, compact, stylish shape.** Lies ergonomically in the hand.
- ∴ **Screw-on end cap.** For easy battery change.
- ∴ **Threaded connector made of metal.** Prevents wear.
- ∴ **Complete range of mini 3000 instruments.** Versatile range.
- ∴ **Replaceable batteries.** Size AA.
- ∴ **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 charger.



| | |
|--|---------------------|
| mini 3000 Battery Handle | 2.5V |
| with two dry batteries IEC LR6 (AA size) | D-001.79.021 |

All 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 mini 3000



[01]

- ∴ **Fast charge capability**
- ∴ **Automatic charging**
- ∴ **Charge indicator**

mini NT charger set 2.5V. Consists of the mini NT 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 charger: Width 112mm, Height 50mm, Depth 52mm, Weight 270g.

- ∴ **Innovative, compact design. Practical and spacesaving.**
- ∴ **Two independant charging compartments.** Complete functionality for one or two handles at a time. Two handles can be charged at a time.
- ∴ **Fast charge feature.** 4 hours to recharge a mini NiMH 2.5V rechargeable battery.
- ∴ **Automatic charging.** Independent of the state of charge of the rechargeable battery. Guarantees extended battery life.
- ∴ **Can not be overcharged.** Charger switches off automatically when the battery is fully-charged.
- ∴ **Charge status display.** Light pulses from the charging compartment confirm the charging mode.
- ∴ **No memory effect.** Full power at any time without loss of capacity.

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

| | |
|--|---------------------|
| mini NT charger set for mini 3000 | 2.5V |
| mini NT charger [01], 2 rechargeable batteries NiMH 2Z [02], 2 bottom inserts for mini 3000 rechargeable handle [03] | X-001.99.485 |

| | |
|-----------------------------------|---------------------|
| Rechargeable battery NiMH 2Z [02] | X-001.99.487 |
|-----------------------------------|---------------------|

| | |
|--|---------------------|
| mini NT adaptor set for mini 2000 | 2.5V |
| 2 bottom inserts for mini 2000 [04], 2 adaptors [05] | X-001.99.491 |



[02]



[03]



[04]



[05]

Please note: To convert mini 2000 handles to rechargeable, please order X-001.99.485 and X-001.99.491 together.



HEINE NT300® charger

The best in performance and quality



∴ Fast charge capability

∴ Automatic charging

∴ Charge indicator

Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm, Weight 830 g.

The NT 300 charger automatically charges HEINE rechargeable batteries irrespective of their state of charge or their output voltage. The rechargeable battery cannot be overcharged. With the appropriate adaptor set it is possible to recharge all BETA L, BETA NT, BETA SLIM rechargeable handles and laryngoscope rechargeable handles in the same NT300.

- ∴ **Innovative, compact design. Practical and spacesaving.**
- ∴ **Two independant charging compartments.** Complete functionality for one or two handles at a time.
- ∴ **Fast charge feature.** 2 hours to recharge a BETA L rechargeable handle with Li-ion L rechargeable battery. 4 hours for other rechargeable handles.
- ∴ **Automatic charging.** Independant of the state of charge of the rechargeable battery. Guarantees extended battery life.
- ∴ **Can not be overcharged.** Charger switches off automatically when the battery is fully-charged.
- ∴ **Charge status display.** Light pulses from the charging compartment confirm the charging mode.
- ∴ **Compatible** with BETA L, BETA NT, BETA SLIM (with adaptors), Nicatron N, Nicatron S rechargeable handles (NiMH, Li-ion and Li-ion L).

| | |
|---|---------------------|
| NT 300 charger | 3.5V |
| Charger without handle, with adaptors for BETA handles [03] | X-002.99.495 |
| Two adaptors for BETA SLIM rechargeable handles [01] + [02] | X-000.99.086 |



[01]



[02]



[03]

HEINE Lamp Handle



6V/4.2W

Economically-priced light source ensuring bright illumination for Fiber Optic instruments such as anoscope, proctoscope, sigmoidoscope.

Length of cord: 2m. Cinch plug for connection to a 6V power source.

Recommended power source: E7, E9.

| | |
|--------------------|-----------|
| Lamp Handle | 6V |
|--------------------|-----------|

| | |
|--|---------------------|
| with switch and XHL Xenon Halogen bulb | X-004.99.607 |
|--|---------------------|

| | |
|------------|---------------------|
| Spare bulb | X-004.88.060 |
|------------|---------------------|

| | |
|---|---------------------|
| Extension cord. Suitable for all HEINE instruments and power sources with Cinch connector. Length of cable 1.6m. | X-000.99.207 |
|---|---------------------|

HEINE Cords witch



On/Off switch. Suitable for all HEINE instruments and power sources with Cinch connector.

| | |
|-------------|---------------------|
| Cord switch | X-095.16.202 |
|-------------|---------------------|

Plug-in transformer HEINE E7®



6V/6W max. Power source, suitable for lamp handle or BETA Cord Handle.

| | |
|-----------|-----------|
| E7 | 6V |
|-----------|-----------|

| | |
|------------------------|---------------------|
| Plug-in transformer E7 | X-095.16.100 |
|------------------------|---------------------|

| | |
|-----------------------------------|---------------------|
| same, with lamp handle and switch | X-095.16.102 |
|-----------------------------------|---------------------|

Plug-in transformer HEINE E8®

Power source for SIGMA KC



6V/10W Powerful, economically-priced electric supply unit.

| | |
|-----------|-----------|
| E8 | 6V |
|-----------|-----------|

| | |
|------------------------|---------------------|
| Plug-in transformer E8 | X-095.16.201 |
|------------------------|---------------------|

| | |
|------------------------|---------------------|
| same, with cord switch | X-095.16.200 |
|------------------------|---------------------|

Plug-in transformer for the HEINE 3SLED / OMEGA 500



9V/16W. Powerful electric supply unit for the 3SLED / OMEGA 500.

| | |
|---|---------------------|
| Plug-in transformer for 3SLED / OMEGA 500 | X-095.16.320 |
|---|---------------------|



Table top transformer HEINE E9®



2.5V/3.5V/6V/0.8 A max. (Suitable for all cord handles with Cinch plug.)
For all 2.5V and 3.5V instruments and for the 6V lamp handle.
Dimensions: Width 110mm, Height 70mm, Depth 170mm. Weight: 660g.

- ∴ **Choice of voltage.** Versatile – equally suitable for oto- and ophthalmoscope as for proctological use.
- ∴ **Durable yet compact with non-slip rubber feet.** Tough, non-slip design.

Table top transformer E9

X-095.13.200

Please note: Older cord handles with a dual-branch plug system can be adapted by replacing this with a Cinch plug. Not compatible with LED instruments.

Wall Transformer HEINE EN50® UNPLUGGED

Intelligent charger for mPack UNPLUGGED



- ∴ **Charger and wall-mount in one**
- ∴ **Intelligent charging system**

- ∴ **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 (100–240V).** Multi-voltage power supply unit incl. 4 different mains adaptors.
- ∴ **Registered Design.**

Wall unit EN50 UNPLUGGED (without mPack UNPLUGGED) 6V

X-095.17.310

HEINE mPack® UNPLUGGED



Rechargeable battery for OMEGA 500 Indirect Binocular Ophthalmoscope UNPLUGGED and 3SLED HeadLight UNPLUGGED.

- ∴ **Lightweight with balanced weight distribution.** High level of comfort.
- ∴ **Charge status display.** 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:** 2 hours.
- ∴ **mPack UNPLUGGED Akku.** Operating time: 2 hours.
- ∴ **Intelligent charging system.** Automatic changeover from operating to charging mode (in the wall unit). Battery-friendly charging.
- ∴ **Top safety standards.** Integrated charge and performance checks during operation. Lithium polymer technology (selected non-flammable materials). UL-compliant.
- ∴ **Registered Design.**

mPack UNPLUGGED

6V

mPack UNPLUGGED

X-007.99.665

Transformer UNPLUGGED for mPack UNPLUGGED

X-095.16.316

Lithium-Polymer rechargeable battery for mPack UNPLUGGED

X-007.99.680

Extension Cord transformer / UNPLUGGED, 2m

X-000.99.668

- ∴ **Headband battery (rechargeable)**
- ∴ **LED charge status display**



Headband Rheostat HEINE HC 50®

Fingertip Illumination Control for OMEGA 500/UNPLUGGED



[01]



[02]

- ∴ **Left or right sided Mounting Options** – can be mounted on the right or left side of the OMEGA Headband.
- ∴ **Can be combined with EN50 and mPack.**
- ∴ **100–240V Compatible Transformer incl. 4 plugs for world wide compatibility.**
- ∴ **For use with OMEGA 500 only.**

| HC 50 | 6V |
|---|--------------|
| HC 50 Headband Rheostat with transformer HC 50, Connecting cord | X-095.16.324 |
| HC 50 Headband Rheostat (without transformer) [01] | X-095.16.323 |
| Transformer for HC 50 headband brightness control [02] | X-095.16.320 |
| Connecting Cord UNPLUGGED-Cinch | X-000.99.667 |

HEINE mPack®/HEINE mPackLL®



∴ Li-ion Battery

∴ Battery Capacity Indicator

∴ Fast Charge

- ∴ **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 just 2 hours.
- ∴ **Charge status display.** Always lets you know how much operating charge you have left.
- ∴ **Flexible Charging Options.** Charge in the EN50 base station, or with mobile 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.
- ∴ **Flexible Illumination Control.** Can be used in conjunction with HC50 Headband Mounted Rheostat.
- ∴ **100–240V Compatible Transformer** incl. 4 plugs for world wide compatibility.

Note:

mPack is only compatible with: OMEGA 500, OMEGA 200, SIGMA 150, SIGMA 150 M2, SIGMA 150 K, SIGMA 150 KM2, Hand-held Indirect Ophthalmoscope, MONOCULAR, Hand-held Indirect Ophthalmoscope BINOCULAR, BETA Cord Handle, 3S LED HeadLight.

mPack LL only compatible with LED Loupelight.

- ∴ **Brightness control from 0,5 – 100 %**
- ∴ **Capacity with LED Loupelight:** 17 hours from fully charged under full load.



[01]



[02]



[04]



[03]

| mPack /mPack LL | 6V |
|--|--------------|
| EN50 Wall/Table unit with mPack , (incl. 90° Angled Adaptor, Instrument support for Professional L Headband [01]) | X-095.17.302 |
| same, with mPack LL and instrument support for S-Frame [02] and Professional L Headband [01] | X-095.17.303 |
| LI ION mPack with Li-ion rechargeable battery and transformer | X-007.99.672 |
| same, with mPack LL | X-007.99.660 |
| LI ION mPack with Li-ion rechargeable battery, without transformer | X-007.99.671 |
| same, with mPack LL | X-007.99.661 |
| Li-ion rechargeable battery for mPack/mPackLL | X-007.99.676 |
| Transformer for mPack/mPackLL [04] | X-095.16.315 |
| Plug-in 90° Angled Adaptor (for EN50/mPack/mPack LL) [03] | C-000.33.509 |



Wall-/Table-Transformer HEINE EN 50®

Modular Power Supply System



The EN50 Modular Power Supply System (patent pending) offers unsurpassed flexibility and innovative new features. It powers the OMEGA500 and 3SLED and automatically adjusts output to power all existing HEINE 6V and selected LED products (Examination Lights). The EN50, mPack and HC50 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 (patent pending).
- ⌘ **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**.

- ⌘ Modular Power Supply System
- ⌘ Soft Start Technology
- ⌘ Switches off automatically



| EN 50 | 6V |
|---|--------------|
| EN50 Wall/ Table unit with Rheostat Control Module (incl. 90° Angled Adaptor, Extension Cord Cinch-Cinch 2m, Instrument support) [01] | X-095.17.301 |
| Rheostat Control Module for EN50 [02] | X-095.17.305 |
| EN50 Base unit (without Rheostat Control Module) [03] | X-095.17.300 |
| Plug-in 90° Angled Adaptor (for EN 50/mPack/without instrument support) [04] | C-000.33.509 |
| Instrument support for Headband | C-000.33.511 |
| Instrument support for S-Frame and LED LoupeLight | C-000.33.512 |

HEINE EN 100® Wall Transformer

Performance you can depend on



- ⌘ **Suitable for all HEINE 3.5V instruments**.
- ⌘ **The EN100 provides a constant 3.5V output voltage independent of mains voltage fluctuations**. Economical in use, always the right amount of light and environmentally-friendly, no batteries necessary.
- ⌘ **Magnetic On/Off mechanism. No moving parts that can wear out or be damaged**. Durable and maintenance-free. Once selected, the brightness remains the same.
- ⌘ **Soft start avoids current surge during the switch-on phase**. Protects bulbs in the critical switch-on phase and prolongs bulb life. Economical in use.
- ⌘ **Advanced, ergonomic handle design**. Continuous brightness control on the handle. Quality spiral cords with a comfortable working radius of up to 3m. Instrument locks as standard equipment prevent unauthorised removal.
- ⌘ **Flexible extension option**. Freely expandable with additional extension unit.

- ⌘ Soft Start Technology
- ⌘ Lockable handles
- ⌘ Magnetic On/Off mechanism
- ⌘ Optional Extension Unit

| EN 100 Wall Transformer | 3.5V |
|---|--------------|
| EN100* (Basic Unit with two handles) [01] | X-095.12.110 |
| EN100-1* (Single Unit with one handle) [02] | X-095.12.109 |
| Extension Unit* [03] | X-095.12.135 |

*without instruments

