

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 $3.5\,\mathrm{V}$ 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	2.5 V
BETA battery handle 145 x 30 mm dia.	
(batteries not included; appropriate batteries: IEC LR14)	X-001.99.118
BETA extension piece. Converts any BETA handle	
into a 3.5 V 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 3.5 V 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).

3.5V LI ION
X-007.99.395
X-002.99.396

①: Rechargeable handle with charge status display in the bottom insert.





: Fast charge capability / 2 h

: Charge status display

The HEINE BETA® Range of Handles



BETA NT Rechargeable Handle	3.5V NiMH
BETA NT rechargeable handle 145 x 30 mm 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 LI ION
BETA TR handle 145 x 30 mm 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 LI ION
BETA R 170 x 30 mm dia. The BETA R 3.5 V 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 30 mm dia., for 2.5 V, 3.5 V or	
6V connection, maximum cord length extended: 3m	X-000.99.212
BETA cord handle bottom insert (with cord)	X-000.99.213

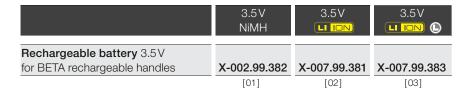


Recommended power sources for BETA Cord Handle	2.5/3.5/6V
Table Top Transformer E9, for all 2.5V, 3.5V and 6V instruments	X-095.13.200
Plug-in transformer E7. An economically-priced power	X-030.10.200
source for the 6V hand-held indirect ophthalmoscope	X-095.16.100



HEINE BETA® Range of Handles - Accessories







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 $3.5\,\mathrm{V}$ handles and bottom inserts.

HEINE Large Battery Handle



Dimensions: 165 x 37 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	2.5 V
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: 180 g.

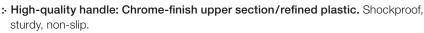
A compact handle with automatic connector for those who prefer a slim handle. Rechargeable in NT300 charger fitted with the small adaptor ring. Batteries not included.

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



- : 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 2.5 V 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	2.5 V
with two dry batteries IEC LR6 (AA size)	D-001.79.021

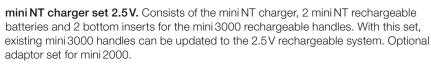
All mini handles are fitted with batteries (IEC LR 6 AA size). mini 3000 handles can be supplied in black or blue. Please specify the colour you prefer when ordering. If not otherwise specified, we will supply black instruments.

HEINE mini NT® charger set for mini 3000





- [01]
- : Fast charge capability
- : Automatic charging
- : Charge indicator



mini NT charger: Width 112 mm, Height 50 mm, Depth 52 mm, Weight 270 g.

- : 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 2.5 V 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 2.5 V NiMH rechargeable battery.

mini NT charger set for mini 3000	2.5 V
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
Illilli N i adaptor set for Illilli 2000	2.5 V
2 bottom inserts for mini 2000 [04], 2 adaptors [05]	X-001.99.491

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

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



- : Fast charge capability
- : Automatic charging
- : Charge indicator



HEINE LampH andle



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 1.6 m.	X-000.99.207

HEINE Cords witch



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

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 3S LED / OMEGA 500



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

Plug-in transformer for 3S LED / OMEGA 500	X-095.16.320
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Table top transformer HEINE E9®



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

- 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 EN 50® 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 (100–240V). 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





- : 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 OMEGA500/UNPLUGGED





- :- 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.
- : 100-240 V Compatible Transformer incl. 4 plugs for world wide compatibility.
- : For use with OMEGA 500 only.

HC50	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
Transferred to 1050 beadless device transcent and [00]	V 005 16 200
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 HC 50 Headband Mounted Rheostat.
- : 100-240 V 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.



[04]

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
mPack with Li-ion rechargeable battery and transformer	X-007.99.672
same, with mPack LL	X-007.99.660
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 EN 50 Modular Power Supply System (patent pending) offers unsurpassed flexibility and innovative new features. It powers the OMEGA 500 and 3S LED and automatically adjusts output to power all existing HEINE 6V and selected LED products (Examination Lights). The EN 50, mPack and HC 50 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.
- : 100 240 V 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
EN 50 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 3.5 V 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 3 m. Instrument locks as standard equipment prevent unauthorised removal.
- \div Flexible extension option. Freely expandable with additional extension unit.

EN100 Wall Transformer	3.5V
ENHOOF (D. 1.11.11.11.11.11.11.11.11.11.11.11.11.	V 005 40 440
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



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



