



NEW | 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
 - BETA4 NT and BETA4 SLIM NT rechargeable handle for NT4 Table Charger
- : Compatibility during your entire career. The new BETA4 Rechargeable Handles are compatible with all 3.5 V 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	2,5 V
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: 180 g.

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

BETA SLIM battery handle	2,5 V
for 2 alkali-manganese batteries, size AA	X-001.99.105



HEINE BETA® 4 rechargeable handles

Next-generation energy management

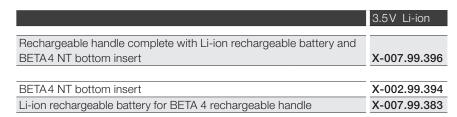


- : Exclusive Automatic Connector
- : Li-ion technology
- : Charge Status Indicator
- USB new flexible and convenient charging option

- : 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 brigthness 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 up to 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.





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	X-000.99.303
E4-USB Medical approved plug-in power supply [02]	X-000.99.305
E4-USB Medical approved plug-in power supply [U2]	X-000.99.305



HEINE BETA® 4 SLIM NT Rechargeable Handle



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

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

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

HEINE® NT 4 Table Charger



Dimensions: Width 142 mm, Height 61 mm, Depth 66 mm, Weight 235 g. With the appropriate adaptor set all BETA4 NT and BETA4 SLIM NT rechargeable handles can be charged in the NT4 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 compartments. 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 display. Light pulses from the charging compartment to confirm the charging mode.



NT4 table charger

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).

X-002.99.494

Adaptor set (two pieces) for BETA4 SLIM NT rechargeable handles and F.O. 4 SLIM NT laryngoscope rechargeable handles [01]

X-000.99.086



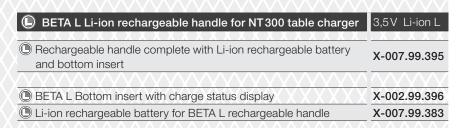
HEINE BETA® Rechargeable Handles

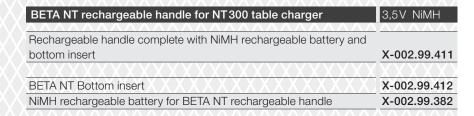
Our previous handle range with Li-ion and NiMH

Rechargeable Handles shown here are only compatible with previous generation systems and the NT300 Table Charger. The NT300 Table Charger is not compatible with BETA4 generation handles.

BETA L Li-ion rechargeable handle for NT 300 table charger

- : Rechargeable handle with Li-ion battery. Fast charge in 2 hours with the NT300
- : 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 3.5 V BETA handles can be converted to BETA L by substituting the Li-ion L battery and BETA L bottom insert.
- : Compatible with previous chargers (NT200).
- : Ready-to-use Function: If the handle is switched on when replaced in the charger, it automatically switches off. When removed, it switches on again at the previouslyselected brightness.





BETA SLIM rechargeable handle	3,5V NiMH
135 mm x 19 mm Ø, rechargeable handle with NiMH rechargeable battery and bottom insert	X-002.99.471
NiMH rechargeable battery for BETA SLIM rechargeable handle	X-002.99.106



X-002.99.495
X-000.99.086

Due to the increased demands on the charging management function of these rechargeable batteries, a latest generation HEINE NT300 recharging station must be used to properly and fully recharge these rechargeable batteries. Latest generation HEINE NT300 recharging stations can be identified by the serial number on the underside of the recharging station. Recharging stations starting with the serial number SN 101 1000 001 are compatible.



HEINE Large Battery Handle



Dimensions: 165 mm 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
for 2 alkali-manganese batteries, size D	X-001.99.120

HEINE mini 3000® Battery Handle



Innovative, compact battery handle in a high-quality, modern design. Suitable for all mini 3000 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.
- $\textbf{:-} \textbf{ Complete range of mini 3000 instruments.} \ \textit{Versatile range}.$
- : 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 table charger.



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

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 mini 3000®

Compact charging technology



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

mini NT Charger set 2.5 V. 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 2.5 V rechargeable system. Optional adaptor set for mini 2000.

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

- : Innovative, compact design. Practical and space-saving.
- : Two independent charging compartments. Complete functionality for one or two handles at a time.
- : Fast charge feature. 4 hours to recharge a mini 3000 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 display. Light pulses from the charging compartment to confirm the charging mode.
- : No memory effect. Full power at any time without loss of capacity.

Please note: Suitable only for mini 3000 2.5 V NiMH rechargeable battery.



mini NT table charger and accessories	
mini NT Charger, only [01]	X-001.99.484
mini 3000 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 2.5 V rechargeable system. It contains:

mini NT table charger [01], 2 rechargeable batteries NiMH 2Z [02], 2 bottom inserts for mini 3000 rechargeable handle [03]



*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.

X-001.99.485



Plug-in transformer for the HEINE® ML4 LED/OMEGA® 500



Powerful electric supply unit for the ML4 LED HeadLight/OMEGA 500 (System voltage 6V).

Plug-in transformer for ML4 LED HeadLight/OMEGA 500

X-095.16.330

HEINE® HC 50 L Headband Rheostat

Fingertip Illumination Control for OMEGA500/UNPLUGGED









- : Left or right sided Mounting Options on the OMEGA Headband.
- : Can be combined with EN50 and mPack (with connection cord X-000.99.667).
- : 100-240V Compatible Transformer.
- : For use with OMEGA500 with XHL- and LED-Illumination.

HC50L Headband Rheostat	6V
HC50 L Headband Rheostat (without plug-in transformer and connecting cord) [01]	X-095.16.325
Plug-in transformer for HC50 L Headband Rheostat [02] Connecting Cord Cinch to	X-095.16.330
EN50 charger/mPack/plug-in transformer for HC50 L, 1,6 m [03]	X-000.99.667



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 (100 240 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





- : 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.
- : Operating time: 3.5 hours for ML4 LED HeadLight, 2 hours for OMEGA500 UNPLUGGED, 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 display





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, 2m [02]	X-000.99.668



HEINE® mPack/HEINE® mPack LL

Portable Power Packs

The mPack is only compatible with OMEGA 500 and ML4 LED HeadLight.

The mPack LL is only compatible with LED LoupeLight, LED MicroLight, SIGMA 250 and SIGMA 250 M2.

- : Brightness control from 0.5 100 %
- : Capacity LED LoupeLight and LED MicroLight: 17 hours from fully charged under full load.
- : Capacity SIGMA250 and SIGMA250 M2: 23 hours from fully charged under full load.
- : 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 Charger base station, or with mobile plug-in transformer.
- : Intelligent. Automatically switches to "charge" mode when inserted in EN 50. 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. Optimum brightness setting prevents reflexes.
- : 100 240 V Compatible Transformer incl. 4 plugs for world wide compatibility.



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





mPack /mPack LL	6V
EN50-m Charger Wall/Table Unit with mPack, (incl. 90° Angled	
Adaptor, Instrument support for Professional L Headband [01])	X-095.17.302
same, with mPackLL and instrument support for	
S-FRAME [02] and Professional L Headband [01]	X-095.17.303
mPack with Li-ion rechargeable battery and plug-in transformer	X-007.99.672
mPackLL with Li-ion rechargeable battery and transformer	X-007.99.660
mPack with Li-ion rechargeable battery, without transformer	X-007.99.671
mPackLL with Li-ion rechargeable battery, without transformer	X-007.99.661
Li-ion rechargeable battery for mPack/mPackLL	X-007.99.676
Plug-in transformer for mPack/mPackLL [04]	X-095.16.315
Plug-in 90° Angled Adaptor (for EN 50 Charger/mPack) [03]	C-000.33.509

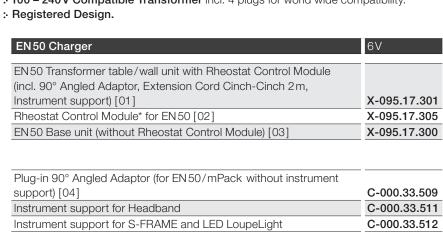


Wall-/Table-Transformer HEINE® EN 50

Modular Power Supply System/charger

The HEINE Modular Power Supply System offers unsurpassed flexibility and innovative new features. The EN50 powers OMEGA500, SIGMA250, ML4 LED HeadLight, LED MicroLight and LED LoupeLight. Furthermore, all other HEINE 6V products are compatibel. The EN50 Charger, the mPack/mPack LL and HC50 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 and mPack LL 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.
- : 100 240 V Compatible Transformer incl. 4 plugs for world wide compatibility.





^{*}not compatible with SIGMA 250, LED MicroLight and LED LoupeLight



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





HEINE EN 100® Wall Transformer

Performance you can depend on

The EN100 Wall Transformer is a modern attractive product that ensures proper storage of the 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 3 m. Instrument locks as standard equipment prevent unauthorised removal.
- : Flexible extension option. The Basic unit [01] or the Single unit [02] are freely expandable with the Extension Unit [03] or with additional components.



- : Soft Start Technology
- : Lockable handles
- : Automatic on/off switching
- : Optional Extension Unit



HEINE EN 100[®] Diagnostic Centre



How to select your personal Diagnostic Centre:

Order the EN 100 Wall Transformer and the Extension Unit or additional system components such as the AllSpec Tip-dispenser or GAMMA XXL LF-W Sphygmomanometer. Select the instruments of your choice (3.5 V XHL or LED version) individually from the HEINE range.

EN 100 Diagnostic Centre	3.5V
EN 100* (Basic Unit with two handles) [01]	X-095.12.110
EN 100-1 (Single Unit with one handle) [02]	X-095.12.109
Extension Unit* [03]	X-095.12.135
AllSpec Tip-dispenser [04]	B-000.11.148
GAMMA XXL LF-W Sphygmomanometer [05]	M-000.09.323

^{*} without instruments



HEINE EN 100[®] Diagnostic Centre





		'
	EN 100 Sets	3.5 V
0	with EN 100 Basic Unit (with two handles),	LED
	BETA 400 LED F.O. Otoscope, BETA 200 LED Ophthalmoscope,	
	1 set of reusable tips	A-095.12.308
	*** EN (00 B) **	
	with EN 100 Basic Unit (with two handles),	XHL
	BETA 400 F.O. Otoscope, BETA 200 Ophthalmoscope, 1 set of reusable tips and	
	1 spare bulb for each instrument [01]	A-095.12.304
	1 Spare bailb for each instrument [OT]	A-033.12.004
0	with EN 100 Basic Unit (with two handles),	LED
	BETA 200 LED F.O. Otoscope, BETA 200 LED Ophthalmoscope,	
	1 set of reusable tips	A-095.12.309
	with EN 100 Basic Unit (with two handles),	XHL
	BETA 200 F.O. Otoscope, BETA 200 Ophthalmoscope,	
	1 set of reusable tips and	A 005 40 005
	1 spare bulb for each instrument	A-095.12.305
	with EN 100 Basic Unit (with two handles),	XHL
	BETA 100 Diagnostic Otoscope, BETA 200 Ophthalmoscope,	
	1 set of reusable specula and	
	1 spare bulb for each instrument	A-095.12.307
	with EN 100 Basic Unit (with two handles),	XHL
	K 180 F.O. Otoscope, K 180 Ophthalmoscope,	
	1 set of reusable tips, 50 disposable tips 4 mm dia.,	
	50 disposable tips 2.5 mm dia. and 1 spare bulb for each instrument [02]	A-095.12.393
	and i spare build for each instrument [02]	A-095.12.393
	with EN 100 Basic Unit (with two handles),	XHL
	K100 Diagnostic Otoscope, K180 Ophthalmoscope,	
	1 set of reusable tips, 50 disposable tips 4 mm dia.,	
	50 disposable tips 2.5 mm dia.	
	and 1 spare bulb for each instrument	A-095.12.394



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