

# Light, Power Sources and Bulbs

## THE HEINE BETA® RANGE OF HANDLES - THE MODULAR POWER SOURCE SYSTEM

The HEINE BETA® range of handles provides ideal solutions for power sources for hand-held diagnostic instruments.

A complete range of high-quality and durable power sources is available for all HEINE hand-held diagnostic instruments. They offer ideal solutions for the personal preference of any user. These solutions range from the classic BETA® basic handle with 2.5V battery power or 3.5V rechargeable batteries up to the innovative charger NT300 and the BETA® L Rechargeable Handle, with charge status display for more performance and reliability or the practical wall transformer HEINE EN 100®.

### BETA handles:

- ∴ High-quality metal construction for strength and durability.
- ∴ Automatic connector: Quick, safe connection.
- ∴ Rheostat: Stepless brightness control with power level indicator.
- ∴ Knurled handle surface: Non-slip and hygienic.

### Hygienic and ergonomic design:

The new smooth surface of the rheostat and Automatic Connector makes cleaning easier and the new design fits comfortably in the palm of the hand.



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.

### Guarantee:

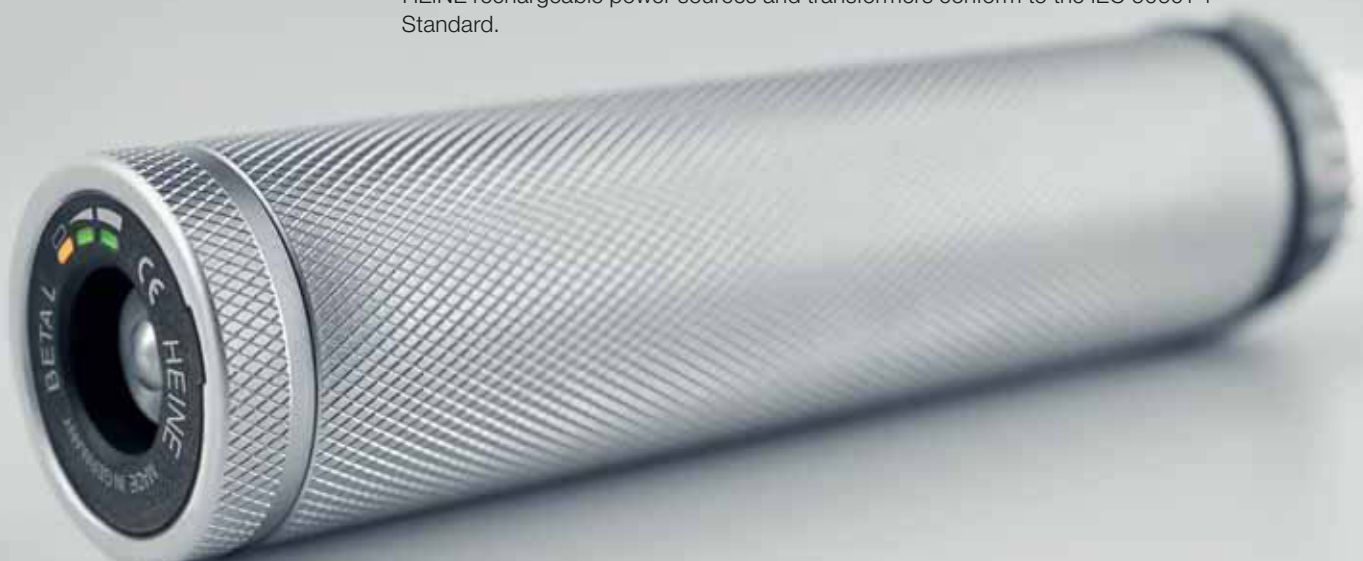
HEINE products all benefit from an exceptional attention to detail in all aspects of the manufacturing process. As a result of this, HEINE gives a 5 year guarantee on all handles and instruments.

### 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.





## The HEINE BETA® Range of Handles

### One module. Multiple charging options.

The handle module X-000.99.010, 145 x 30mm 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.



<b>BETA handle module</b>	<b>X-000.99.010</b>
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<b>BETA Battery Handle</b>	<b>2.5V</b>
145x30mm dia. (batteries not included; appropriate batteries: IEC LR14)	<b>X-001.99.118</b>
BETA extension piece. Converts any BETA handle into a 3.5V battery handle – will not fit case. (Without batteries.)	<b>X-000.99.020</b>
BETA Bottom insert	<b>X-000.99.119</b>

- ⚡ Fast charge capability / 2 h
- 📊 Charge status display
- 🔋 Ready-to-use feature

### Ⓛ 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 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 previously-selected brightness.



<b>Ⓛ BETA L Li-ion rechargeable handle</b>	<b>3.5V  LI-ION</b>
Ⓛ 145x30mm Ø, with Li-ion L rechargeable battery, complete	<b>X-007.99.395</b>
Ⓛ BETA L Bottom insert with charge status display	<b>X-002.99.396</b>

### **BETA NT Rechargeable Handle for NT 300 charger**      **3.5V NiMH**

145 x 30mm dia. with NiMH rechargeable battery	<b>X-002.99.411</b>
BETA NT bottom insert	<b>X-002.99.412</b>



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

The HEINE BETA® Range of Handles



<b>BETA TR Rechargeable Handle with transformer</b>	3.5V NiMH	3.5V
145 x 30 mm dia., with plug-in 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.		
BETA TR without transformer	X-002.99.384	X-007.99.384
Transformer for BETA TR rechargeable handle	X-002.99.386	X-007.99.386
BETA TR bottom insert	X-000.99.308	X-000.99.308
	X-002.99.385	X-002.99.385



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



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



[01]



[02]

<b>Recommended power sources for BETA Cord Handle:</b>	2.5/3.5/6V
Table Top Transformer E9 [01], for all 2.5V, 3.5V and 6V instruments	X-095.13.200
Plug-in transformer E7 [02]. An economically-priced power source for the 6V hand-held indirect ophthalmoscope	X-095.16.100

For more information of the table top transformer HEINE E9, please see page 150.



HEINE rechargeable batteries for BETA Handles



Rechargeable batteries	3.5V NiMH	3.5V Li-ion	3.5V Li-ion L
for BETA rechargeable handles	<b>X-002.99.382</b> [01]	<b>X-007.99.381</b> [02]	<b>X-007.99.383</b> [03]

**Please note:** The Li-ion L battery is not compatible with BETA R, TR and NT 3.5V handles and bottom inserts. For information on HEINE Laryngoscope Handles, see pages 083-084.

- **All full-size BETA handles can be updated to BETA L 3.5V** (except BETA SLIM) handles by substituting the Li-ion L 3.5V battery and the BETA L bottom insert.
- **Max. 4 hours recharge time in NT300 charger with NiMH. 2 hours with Li-ion.**
- **Retro-compatible.** All rechargeable batteries can also be charged in existing NT200 and Nicatron chargers.



<b>BETA Belt Clip</b>	<b>X-000.99.008</b>
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HEINE Large Battery Handle



Dimensions: 165x37 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.

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

HEINE BETA® SLIM Battery /Rechargeable Handle



Dimensions: 135x19mm 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	<b>X-001.99.105</b>	
BETA SLIM Rechargeable Handle with 3.5V M3Z NiMH battery		<b>X-002.99.471</b>
Rechargeable battery 3.5V M3Z NiMH [01]		<b>X-002.99.106</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 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 charger.



<b>mini3000 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). mini3000 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 NT300® charger

### The best in performance and quality



Dimensions: Width 142mm, Height 61 mm, Depth 66mm, Weight 830g. The NT300 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 space-saving.
- ∴ **Two independant charging compartments.** Complete functionality for one or two handles at a time.
- ∴ **Fast charge feature.** 2 hours to recharge 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.
- ∴ **Charge status display.** Light pulses from the charging compartment to confirm the charging mode.
- ∴ **Compatible** with BETA L, BETA NT rechargeable handles, Standard F.O., Short F.O. and Angled F.O. rechargeable Laryngoscope Handles (NiMH, Li-ion and Li-ion L). BETA SLIM and Small F.O. Laryngoscope Handles with optional adaptors.

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

<b>NT300 Charger</b>	<b>3.5V</b>
without handle, with adaptors for BETA and Standard F.O. Handles, Short F.O. and Angled F.O. Laryngoscope Handles [03]	<b>X-002.99.495</b>

Two adaptors for BETA SLIM and Small F.O. Laryngoscope Rechargeable Handles [01] + [02]	<b>X-000.99.086</b>
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## HEINE mini NT® charger set for mini 3000

### Compact charging technology



∴ 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 112 mm, Height 50 mm, Depth 52 mm, Weight 270 g.

- ∴ **Innovative, compact design.** Practical and space-saving.
- ∴ **Two independant charging compartments.** Complete functionality for one or two handles at a time.
- ∴ **Fast charge feature.** 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.
- ∴ **Can not 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 mini3000 2.5V NiMH rechargeable battery.



mini NT Charger and accessories	2.5V
mini NT Charger, only [01]	X-001.99.484
Rechargeable battery NiMH 2Z, only [02]	X-001.99.487
Bottom insert for mini 3000 Rechargeable Handle, only [03]	X-001.99.488



mini NT Adaptor Set for 1 mini 2000 Handle	2.5V
This set contains:	
1 bottom insert [04] and 1 adaptor for mini 2000 [05]. Together with a rechargeable battery it will allow the upgrade of one existing mini2000 handle.	
	X-001.99.493



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

### 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: 2 m. Cinch plug for connection to a 6V power source.  
Recommended power source: E7, E9.

<b>Lamp Handle</b>	<b>6V</b>
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with switch and XHL Xenon Halogen bulb	<b>X-004.99.607</b>
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Spare bulb	<b>X-004.88.060</b>
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<b>Extension cord.</b> Suitable for all HEINE instruments and power sources with cinch connector. Length 2 m.	<b>C-000.33.510</b>
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### HEINE Cord switch



On/Off switch. Suitable for HEINE instruments and power sources with cinch connector (E7, E8, E9).

Cord switch	<b>X-095.16.202</b>
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### Plug-in transformer HEINE E7®



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

<b>E7</b>	<b>6V</b>
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Plug-in transformer E7	<b>X-095.16.100</b>
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same, with lamp handle and switch	<b>X-095.16.102</b>
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### Plug-in transformer HEINE E8®

#### Power source for SIGMA KC



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

<b>E8</b>	<b>6V</b>
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Plug-in transformer E8	<b>X-095.16.201</b>
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same, with cord switch	<b>X-095.16.200</b>
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Plug-in transformer for the HEINE 3SLED® / OMEGA 500®



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

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

Suitable for all cord handles with Cinch plug



2.5V/3.5V/6V/0.8 A max.

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, 2.5V, 3.5V or 6V.** 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
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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.

HEINE HC 50® 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** incl. 4 plugs for world wide compatibility.
- ∴ **For use with OMEGA 500 only.**

<b>HC 50 Headband Rheostat</b>	<b>6V</b>
with plug-in transformer and connecting cord UNPLUGGED-Cinch	X-095.16.324
HC 50 Headband Rheostat (without plug-in transformer and connecting cord) [01]	X-095.16.323



[02]

Plug-in transformer for HC 50 Headband Rheostat [02]	X-095.16.320
Connecting cord UNPLUGGED-Cinch [03]	X-000.99.667



[03]

## 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 (100–240 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**

## HEINE mPack® UNPLUGGED

### Headband-mounted rechargeable battery



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

Rechargeable battery for OMEGA500 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.** Operating time: 4 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.**

<b>mPack UNPLUGGED</b>	<b>6V</b>
mPack UNPLUGGED	<b>X-007.99.665</b>
Transformer UNPLUGGED for mPack UNPLUGGED	<b>X-095.16.316</b>
Lithium-Polymer rechargeable battery for mPack UNPLUGGED	<b>X-007.99.680</b>
Extension Cord from plug-in transformer UNPLUGGED to mPack UNPLUGGED, 2m	<b>X-000.99.668</b>

LI POL





HEINE mPack®/HEINE mPack LL®

Portable Power Packs



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



**The mPack is only compatible with** OMEGA500, OMEGA200, SIGMA 150, SIGMA 150M2, SIGMA 150K, SIGMA 150KM2, Hand-held Indirect Ophthalmoscope MONOCULAR, Hand-held Indirect Ophthalmoscope BINOCULAR, BETA Cord Handle, 3S LED HeadLight.

**The mPack LL is only compatible with** LED LoupeLight and LED MicroLight.

- ∴ **Brightness control from 0,5 – 100 %**
- ∴ **Capacity with LED LoupeLight:** 17 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 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.

mPack / mPack LL	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>
same, with <b>mPack LL</b> and instrument support for S-Frame [02] and Professional L Headband [01]	<b>X-095.17.303</b>
<b>LI ION</b> <b>mPack</b> with Li-ion rechargeable battery and plug-in transformer	<b>X-007.99.672</b>
<b>LI ION</b> <b>mPack LL</b> with Li-ion rechargeable battery and transformer	<b>X-007.99.660</b>
<b>LI ION</b> <b>mPack</b> with Li-ion rechargeable battery, without transformer	<b>X-007.99.671</b>
<b>LI ION</b> <b>mPack LL</b> with Li-ion rechargeable battery, without transformer	<b>X-007.99.661</b>
Li-ion rechargeable battery for mPack/mPackLL	<b>X-007.99.676</b>
Plug-in transformer for mPack/mPackLL [04]	<b>X-095.16.315</b>
Plug-in 90° Angled Adaptor (for EN50 Charger/mPack and mPack LL) [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 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 Charger, the mPack/mPack LL 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 and mPack LL 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.**

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



## 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 3 m. Instrument locks as standard equipment prevent unauthorised removal.
- ⚡ **Flexible extension option.** Freely expandable with additional extension unit.

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

\*without instruments

⚡ Soft Start Technology

⚡ Lockable handles

⚡ Magnetic On/Off mechanism

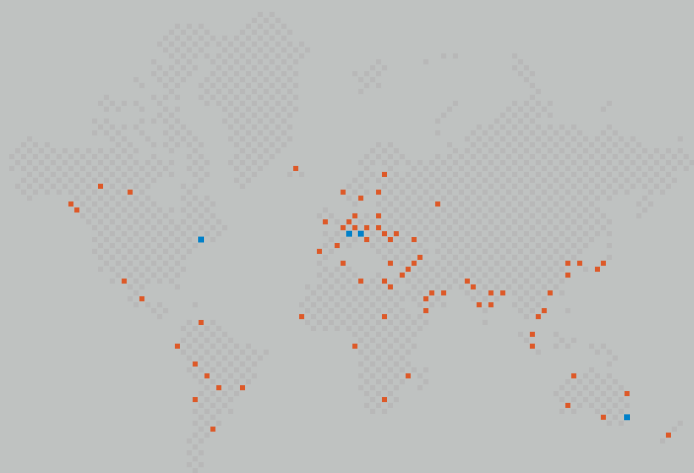
⚡ Optional Extension Unit



**A company makes history and gives a name to  
outstanding product quality: HEINE.**

Founded in 1946, family owned, rich in tradition and today international market leader in a complete range of diagnostic instruments. HEINE products meet all international standards (ISO/CE) and represent the leading edge in precision and ergonomic design. Ongoing dedication to research and development has created a solid and diverse technology base for continued quality and product leadership. Over 500 employees worldwide contribute to this success.

[www.heine.com](http://www.heine.com)



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