



HEINE's Power and Light Sources are available in 2.5V, 3.5V and 220V and, to special order 120V form. Most instruments and power sources are mutually-compatible. Light sources are available with LED and Xenon Halogen technology, so that the ideal light source for each instrument can be specified.

We recommend environmentally-friendly rechargeable systems with Lithium Ion technology. A full range of accessories is available to complete the range.

**Note :** HEINE Rechargeable Power Sources and Transformers conform to the IEC 60601-1 Standard.

### HEINE mini 2000® Battery handle

For all 2.5V mini instruments



- Elegant ribbed design.
- Clip with on/off switch.
- Screw-on end cap.
- Threaded connector made of metal.
- Complete range of mini instruments.

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|                          | 2.5V         |
| mini 2000 Battery handle | T-001.79.009 |

### HEINE BETA® Battery handle

With brightness control



- A robust metal handle, matt chromium-plated with non-slip surface. Takes 3 alkali-manganese batteries LR14, "Baby-Cell".
- Dimensions: 170 mm x 29 mm dia.
- Weight (including batteries): 400 g.



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| BETA Battery handle  | 3.5V         |
| BETA Battery handle for 3 alkali-manganese dry batteries LR14 (batteries not included) | T-002.25.369 |

### HEINE BETA R® Rechargeable handle



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| BETA R Rechargeable Handle   | 3.5V         |
| BETA R 170 x 30 mm dia., with NiMH rechargeable battery. The BETA R 3.5V handle can be charged directly in the mains socket or outlet after unscrewing the cap.* | T-002.99.376 |
| same, with Li-ion rechargeable battery   | T-007.99.376 |

\* In some countries an adaptor for the mains outlet may be necessary.

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

## HEINE NT 300® Charger and BETA NT® Rechargeable handle



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

- ⋄ **Automatic charging.** Reduced charging time, increased battery life.
- ⋄ **Two independant charging compartments.** For one or two handles at a time.
- ⋄ **Suitable for wall-mounted, table-top or built-in use.** Suits all customer needs.
- ⋄ **Equally-suitable for HEINE NiMH or Li-ion rechargeable handles.**

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| <b>NT300 Charger</b> | 3.5V |
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| Charger without handle | <b>T-002.99.495</b> |
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| <b>BETA NT Rechargeable handle with brightness control</b> |  |
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| BETA NT Rechargeable handle 145 x 30mm dia.,<br>with NiMH rechargeable battery | <b>T-002.99.411</b> |
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| same, with NT300 Charger | <b>T-002.99.420</b> |
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| NT300 Charger with 2 handles, complete | <b>T-002.99.422</b> |
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| BETA NT handle with Li-ion rechargeable battery | <b>T-007.99.411</b> |
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| same, with NT300 Charger | <b>T-007.99.420</b> |
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| NT300 Charger with 2 Li-ion handles, complete | <b>T-007.99.422</b> |
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## Accessories for HEINE BETA® Rechargeable handles



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| NiMH rechargeable battery 3.5V for BETA Rechargeable handles | <b>T-002.99.382</b> |
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| Li-ion rechargeable battery 3.5V for BETA Rechargeable handles | <b>T-007.99.381</b> |
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| BETA R bottom insert | <b>T-002.99.377</b> |
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| BETA NT bottom insert | <b>T-002.99.412</b> |
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| BETA Belt Clip for BETA handles | <b>T-000.99.008</b> |
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| Extension cord with automatic plug, 180cm long | <b>T-000.99.230</b> |
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All 3.5V BETA Rechargeable handles are available from HEINE with Lithium-Ion technology.

- ⋄ **Double the capacity** - up to 120min working time without recharging.
- ⋄ **Lightweight and convenient.**
- ⋄ **No more memory effect.** Full capacity whenever needed.

## HEINE LED ScopeLight®

### LED Endoscope illumination



- ⋄ **White LED (3 Watt)**, 5,000 – 6,000K colour temperature. Brilliant white light.
- ⋄ **Brightness:** Up to 110.000 lux at the light input to the light guide.
- ⋄ **Ca. 50,000 hours** working life.
- ⋄ **One set of batteries** gives at least 24 hours working time with a HEINE BETA 3.5V Handle
- ⋄ **Shock- and impact-resistant.**
- ⋄ **Compatible with ACMI**, so that it can be used as a portable light source for competitors endoscopes.

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| <b>LED ScopeLight</b> | 3.5V |
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| LED ScopeLight | <b>T-008.26.075</b> |
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## AV-Adaptor 3.5V



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| <b>AV-Adaptor</b> | 3,5V |
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| AV-Adaptor incl. 3.5 V XHL Xenon Halogen bulb | <b>T-002.26.402</b> |
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### Accubox I with brightness control

#### Power source 12V for Endoscopes with 12V illumination



Accubox and connecting cord with cinch- and HEINE-automatic plug. Compact and handy battery box in high-impact polyamid, containing one NiMH rechargeable battery charged by means of a mains transformer. Light in weight and fully-portable, it can be carried in a coat pocket or attached to a belt by a clip.

- ∴ **Operating time (fully charged):** > 90 min.
- ∴ **Output:** 12V.
- ∴ **Dimensions:** 120 x 70 x 40mm. Weight: 360g.

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| <b>Accubox I</b>  | 12V                 |
| Accubox I, 12V with brightness control, incl. battery and mains transformer, without connecting cord                      | <b>T-005.99.629</b> |
| Connecting cord between Accubox and Techno-Endoscope, with cinch- and HEINE-automatic plug. Length: 1.8 m (must be used). | <b>T-000.99.241</b> |
| Rechargeable battery NiMH   | <b>T-004.99.641</b> |

### Accubox II with on/off switch

#### Power source 12V for Endoscopes



- ∴ **NiMH Rechargeable battery S10Z**
- ∴ **Operating time (fully charged):** > 90 min.
- ∴ **Output:** 12V.
- ∴ **Dimensions:** 120 x 70 x 40mm. Weight: 360g.

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| <b>Accubox II</b>   | 12V                 |
| Accubox II 12V with on/off switch, incl. battery S10Z and mains transformer, without connecting cord                        | <b>T-005.99.634</b> |
| Connecting cord between Accubox II and Techno-Endoscope, with cinch- and HEINE-automatic plug. Length: 1.8m. (must be used) | <b>T-000.99.241</b> |
| Replacement battery S10Z  | <b>T-005.99.635</b> |

### Connecting Cable for Cigarette Lighter Socket

#### Uses 12V automobile battery power for 12V Endoscopes



5m cable to fit Cigarette Lighter Socket 12V allows the use of automobile battery power for 12V endoscopes.

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| Connecting Cable for Cigarette Lighter Socket | <b>T-000.99.246</b> |
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### AV-Adaptor 12V



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| <b>AV-Adaptor</b>                           | 12V                 |
| AV-Adaptor incl. 12V XHL Xenon Halogen bulb | <b>T-005.26.402</b> |

## F.O. Projector HEINE HK 7000®



The F.O. Projector **HK 7000** incorporates a special long-life XHL Halogen bulb rated at 150 Watts. If more light is needed for a particular examination, a boost switch can be operated, giving up to 40 % more light.  
Dimensions: Width 177 mm, Height 125 mm, Depth 217 mm. Weight 3180g.

- ∴ **Powerful XHL Halogen bulb.** For maximum brightness.
- ∴ **Aspheric illumination optics.** Intense light with high colour temperature.
- ∴ **Continuous light intensity adjustment without colour temperature changes.** Allows brightness reduction with no red shift of light.
- ∴ **Boost switch.** Gives up to 40 % more light; can reduce bulb life.
- ∴ **Extended life of the halogen bulb** of up to 500 hours.
- ∴ **Folding handle.** Easy to transport.

### F.O. Projector HK 7000

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| HK 7000, 150W XHL Halogen spare bulb and fuse included | <b>T-096.15.121</b> |
| Spare fuse   | <b>T-096.15.110</b> |
| XHL Halogen spare bulb 150W                            | <b>T-096.15.102</b> |

## Standard Fiber Optic Light Guide for HEINE F.O. Projector



For F.O. Projector HK 7000 .  
Length incl. handle: 250cm.

- ∴ **4 mm fiber bundle of high quality.** Outstanding light transmission. Highly flexible cable.
- ∴ **Inner aluminium sheathing.** Resistant to kinking and lightweight.
- ∴ **Smooth outer plastic sheathing.** Easy to clean.

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| Fiber Optic Light Guide | <b>T-003.26.403</b> |
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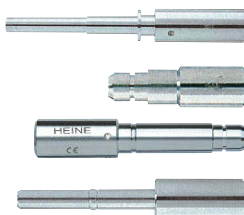
## Adaptors

### Adaptor between Endoscopes and F.O. Light Guides



| Endoscope Manufacturer | F.O. Light Guide Manufacturer   | F.O.                |
|------------------------|---------------------------------|---------------------|
| HEINE                  | Winter & Ibe<br>Storz / Olympus | <b>T-000.26.408</b> |
| HEINE                  | Richard Wolf                    | <b>T-000.26.407</b> |

### Adaptor between Projectors and F.O. Light Guides



| Projector Manufacturer | F.O. Light Guide Manufacturer | F.O.                |
|------------------------|-------------------------------|---------------------|
| Storz                  | HEINE                         | <b>T-096.12.102</b> |
| Richard Wolf           | HEINE (up to < 1989)          | <b>T-096.12.103</b> |
| Richard Wolf           | HEINE (up to > 1990)          | <b>T-096.12.120</b> |
| Olympus                | HEINE                         | <b>T-096.12.106</b> |

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

**HEINE** QUALITY  
MADE IN GERMANY

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 optical Inspection 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.

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