

∴ **HEINE Binocular Loupes and Illumination**

Powerful LED Illumination and highly-magnified crisp images.

NEW: 100% MOBILITY for 3S LED with HEINE mPack® UNPLUGGED



∴ **HEINE Binocular Loupes and Illumination**

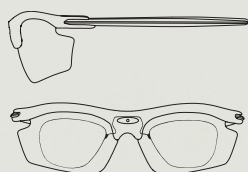
Comfort, Performance, Flexibility.



HEINE QUALITY
MADE IN GERMANY

HEINE S-FRAME® / HEINE S-GUARD®

Multi-purpose spectacle frame for HR, HRP and HR-C Binocular Loupes.



The Perfect Fit.

The new S-Frame spectacle frame always fits since it can be set individually to suit almost any parameter. It adapts to any head or face shape quickly and easily.

A correction frame for prescription lenses can easily be snapped in behind the polycarbonate lenses.

Ideal wearing comfort.

The perfect fit plus light and stable high-tech materials make the S-Frame comfortable beyond compare – spectacles feature low weight with no pressure points, pinching or slipping. Optimally adapted in combination with Professional L and Lightweight headbands, the S-Guard provides splash protection and always ensures the optimum adjustment and positioning of the binocular loupe.

State-of-the-art design and high-tech materials.

High-tech materials such as carbon, Kynetium®, titanium, magnesium and silicon with their superior characteristics offer extreme durability combined with low weight. Together with its exclusive design, the S-Frame provides everything you need in terms of functionality, style and performance.

HEINE BINOCULAR LOUPES

Bright, crisp images.



Innovative optical design.

Exclusive HEINE multi-coating guarantees brilliant and bright optics.

Exceptional image quality.

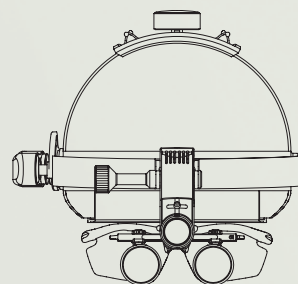
HR® (High Resolution) and HRP® (HR Prismatic) technology offer extraordinarily crisp images and a distortion-free field of view with an excellent depth of field.

Easy to use and compact.

Exceptionally, light weight performance.

HEINE LED ILLUMINATION

Powerful, compact
LED Illumination.



Light and compact.

With coaxial, white and homogeneous illumination – ideal for dental and ENT applications in combination with HEINE binocular loupes.



∴ **HEINE Binocular Loupes**

High-tech optics for brilliant images
with excellent depth of field.



Bright, crisp images: HEINE binocular loupes.

HEINE binocular loupes set standards for innovative optics combined with high-tech materials and production techniques. A wide range of applications in many disciplines: General Medicine, Dermatology, minor and some major Surgery, Plastic Surgery, Neuro-Surgery, ENT, Ophthalmology, Veterinary Medicine, Dentistry etc.

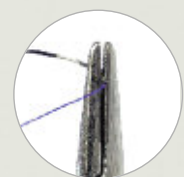
The use of magnifying loupes will increase your visual acuity and reduce eye strain. Careful selection of working distance and correct viewing angle will prevent back and neck strain by allowing a comfortable working position.

In combination with the HEINE S-Frame® or S-Guard® spectacle frames and your choice of LED light, the binocular loupes form part of an integrated system suitable for universal applications.

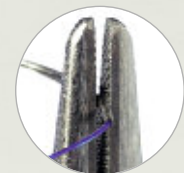
HEINE-tip.**Three easy steps to select your HEINE binocular loupe:**

01. Simply select the lowest magnification that will meet your needs. The lower the magnification, the larger the field of view, and the easier the loupe will be to use.
02. Then determine your working distance, which will also automatically determine your field of view. To determine your working distance, assume a comfortable, posture-correct position for the intended loupe application and determine the distance between your eyes and your working area. Using the chart below, match this distance with the nearest nominal working distance option shown beside the magnification you chose. Note: The closer the loupes are to the eyes, the larger the field-of-view.
03. Finally, select your preferred mounting option, Spectacle Frame or Headband. All options offer the user flexibility and adaptability for precise optical position, alignment and performance.

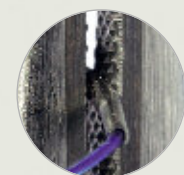
	Magnification	Nominal Working distance	Field of view	Depth of field
HR	2.0x	250 mm	90 mm	80 mm
	2.0x	340 mm	130 mm	130 mm
	2.0x	420 mm	190 mm	200 mm
	2.0x	520 mm	250 mm	290 mm
	2.5x	250 mm	60 mm	60 mm
	2.5x	340 mm	90 mm	110 mm
	2.5x	420 mm	130 mm	180 mm
	2.5x	520 mm	180 mm	260 mm
HRP	3.5x	420 mm	65 mm	60 mm
	4.0x	340 mm	50 mm	40 mm
	6.0x	340 mm	40 mm	30 mm
HR-C	2.5x	340 mm	70 mm	110 mm
	2.5x	420 mm	70 mm	140 mm



2x/340 mm, field of view 130 mm
(field of view up to 250 mm)*



2.5x/340 mm, field of view 90 mm
(field of view up to 180 mm)*



6x/340 mm, field of view 40 mm*

* Illustration not to scale.

[HEINE HR® BINOCULAR LOUPES]

HEINE binocular loupes with HR (High Resolution) technology for extremely sharp, bright images featuring an especially large field of view.

- ✦ **The Brightest Image.** Our exclusive coating technology reduces light reflection to 0.3%, providing the brightest image of any comparable loupe.
- ✦ **The Crispest Image with Colour Correction.** State-of-the-art HEINE optics with achromatic lenses provide a standard for image clarity, crispness and colour compared with conventional Galilean loupes.
- ✦ **Super-Wide, Super-Deep Field of View.** Improvements in our HR (High Resolution) optical technology provide a super-wide, fully-useable, distortion-free field of view (up to 250mm) and the greatest depth of field (up to 290mm) to eliminate eye strain even over extended periods of use.
- ✦ **Dust- and Water-Resistant.** All HR loupes are dust- and water-resistant according to IP65/IEC 60529 (2000) to ensure ease of cleaning/disinfection and years of trouble-free use.
- ✦ **Flexibility for Precise Adjustment.** HEINE binocular loupes have independently adjustable optics left and right to

select the exact inter-pupillary distance (PD). Conventional designs using a single adjuster are always a compromise. HR Loupes can be adjusted precisely for each user for optimum optical performance by means of 5 different mounting positions on either frame or headband (with angled adaptor).

- ✦ **Super Light.** HR optics weigh only 42 grams for user comfort even over extended periods.
- ✦ **The HEINE S-Frame®** is a truly exceptional spectacle frame: virtually all of its parameters can be customised – making it the perfect fit for any head or face shape. It is ultra-light, pleasant to wear and can be combined with all new HR, HRP and HR-C Binocular Loupes. In the S-Guard version for splash protection, the S-Frame can be used with Professional L and Lightweight Headbands.
- ✦ **5-year warranty.** Against defects in manufacture and workmanship for a period of 5 years from the date of purchase.



HR Binocular Loupe mounted on S-Frame



HR Binocular Loupe mounted on S-Guard, Professional L Headband



HR Binocular Loupe mounted on S-Guard, Lightweight Headband



[ORDER INFORMATION]

HR Binocular Loupes

Magnification	2x	2x	2x
Working distance	340mm	420mm	520mm
Set A	C-00.32.325	C-00.32.322	C-00.32.326
Set B	C-00.32.315	C-00.32.312	C-00.32.316
Set C	C-00.32.385	C-00.32.382	C-00.32.386
Optics only	C-00.32.505	C-00.32.502	C-00.32.506
Magnification	2.5x	2.5x	2.5x
Working distance	340mm	420mm	520mm
Set A	C-00.32.324	C-00.32.327	C-00.32.323
Set B	C-00.32.314	C-00.32.317	C-00.32.313
Set C	C-00.32.384	C-00.32.387	C-00.32.383
Optics only	C-00.32.504	C-00.32.507	C-00.32.503
Correction frame for corrective lenses			C-00.32.309

Set A

Optics, S-Frame spectacle frame, detachable protective lenses, 2 sterilisable swivel levers, retaining cord, cleaning fluid, carrying case.

Set B

Optics, Professional L Headband, S-Guard splash protection, detachable protective lenses, 2 sterilisable swivel levers, cleaning fluid.

Set C

Optics, Lightweight Headband, S-Guard splash protection, detachable protective lenses, 2 sterilisable swivel levers, cleaning fluid, carrying case.

[HEINE HRP® BINOCULAR LOUPES]

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HEINE HRP® (High Resolution Prismatic) Binocular Loupes for higher magnification and extremely crisp images, edge to edge.

∴ **Prismatic Optics.** Only top-quality, precision glass prisms are used to provide the highest resolution and clearest, crispest images over the entire field of view “edge-to-edge”.

∴ **The Brightest Image in Perfect Colour.** Our exclusive coating technology reduces light reflection to 0.3% allowing for optimum light transmission, and ensuring perfect colour reproduction for brilliant, 3-dimensional images.

∴ **Compact Design.** Although the higher magnification requires a more complex design, the weight of the HRP Loupes has been minimised. The 3.5x and 4x optics weigh only 78g, the 6x weighs only 89g. The headband mounting option is an ideal way to eliminate any weight concerns for those users not accustomed to wearing any type of glasses or spectacles.

∴ **Dust- and Water-Resistant.** All HRP Loupes are dust- and water-resistant to IP65/IEC 60529 (2000) to ensure ease of cleaning / disinfection, and years of trouble-free use.

∴ **Flexibility for Precise Adjustment.** HRP Loupes have independently-adjustable optics left and right for selecting the exact inter-pupillary distance (PD). HRP Loupes can be adjusted precisely for each user for optimum optical performance by means of 5 different mounting positions on either frame or headband (with angled adaptor).

∴ **Field of View at High Magnification.** Advanced optical design ensures a wide field of view and a great depth of field even at high magnification, preventing eye strain over extended periods of use.

∴ **The HEINE S-Frame®** is a truly exceptional spectacle frame: virtually all of its parameters can be customised – making it the perfect fit for any head or face shape. It is ultra-light, pleasant to wear and can be combined with all new HR, HRP and HR-C Binocular Loupes. In the S-Guard version for splash protection, the S-Frame can be used with Professional L and Lightweight Headbands.

∴ **5-year warranty.** Against defects in manufacture and workmanship for a period of 5 years from the date of purchase.



HRP Binocular Loupe mounted on S-Frame



HRP Binocular Loupe mounted on S-Guard, Professional L Headband



HRP Binocular Loupe mounted on S-Guard, Lightweight Headband

**Set A**

Optics, S-Frame spectacle frame, detachable protective lenses, 2 sterilisable swivel levers, retaining cord, cleaning fluid, carrying case.

Set B

Optics, Professional L Headband, S-Guard splash protection, detachable protective lenses, 2 sterilisable swivel levers, cleaning fluid.

Set C

Optics, Lightweight Headband, S-Guard splash protection, detachable protective lenses, 2 sterilisable swivel levers, cleaning fluid, carrying case.

[ORDER INFORMATION]

HRP Binocular Loupes

Magnification	3.5x	4x	6x
Working distance	420mm	340mm	340mm
Set A	C-00.32.423	C-00.32.425	C-00.32.426
Set B	C-00.32.413	C-00.32.415	C-00.32.416
Set C	C-00.32.492	C-00.32.494	C-00.32.497
Optics only	C-00.32.703	C-00.32.705	C-00.32.706
Correction frame for corrective lenses			C-00.32.309



∴ **HEINE HR-C® Binocular Loupe**

Top optical quality in a compact design.

[HEINE HR-C® BINOCULAR LOUPES]

Super-compact and lightweight Binocular Loupe.

- ∴ **Colour Correction and Excellent Depth of Focus.** HR (High Resolution) – achromatic optics with exclusive multi-coating technology for the brightest, crispest images.
- ∴ **Super Lightweight** (45 g including frame). Greatest user comfort over extended periods.
- ∴ **Modern, Compact Design.** The advanced, compact and functional design makes it easy to look past the optics when an unmagnified view is preferred.
- ∴ **Precise Optical Adjustment.** HEINE binocular loupes have independently adjustable optics left and right to adjust the exact inter-pupillary distance (PD), and a 3-link adjustable mounting arm.
- ∴ **Water- and Dust-Resistant.** The loupes are water and dust resistant according to [IP65/IEC 60529 (2000)], ensuring ease of cleaning/disinfection.
- ∴ **Headband Lightweight** with individually-adjustable Declination Angle. A newly developed articulated arm ensures simple adjustment of the angle of declination up to 35° – for comfortable and fatigue-free use.
- ∴ **The HEINE S-Frame®** is a truly exceptional spectacle frame: virtually all of its parameters can be customised – making it the perfect fit for any head or face shape. It is ultra-light, pleasant to wear and can be combined with all new HR, HRP and HR-C Binocular Loupes. In the S-Guard version for splash protection, the S-Frame can be used with Professional L and Lightweight Headbands.
- ∴ **5-year warranty.** Against defects in manufacture and workmanship for a period of 5 years from the date of purchase.



HR-C Binocular Loupe mounted on S-Guard, Lightweight Headband



HR-C Binocular Loupe mounted on S-Frame

[ORDER INFORMATION]

HR-C Binocular Loupe

2.5x/340 mm with S-Frame in case	C-00.32.290
2.5x/420 mm with S-Frame in case	C-00.32.291

2.5x/340 mm with Lightweight Headband and S-Guard in case	C-00.32.293
2.5x/420 mm with Lightweight Headband and S-Guard in case	C-00.32.294

Case	C-00.32.530
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Correction frame for corrective lenses	C-00.32.309
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∴ **HEINE 3S LED HeadLight®**
HEINE 3S LED HeadLight® UNPLUGGED

For HR/HRP Binocular Loupes. A perfect combination.



[HEINE 3S LED HEADLIGHT® FOR HR®/HRP® BINOCULAR LOUPES]

The ultra bright and compact 3S LED HeadLight for powerful, coaxial illumination. 30,000 Lux of bright, white light.

- ✦ **Illumination.** 30,000 Lux at a working distance of 250mm.
- ✦ **Colour Temperature.** Reference Colour Temperature of 6,000 Kelvin.
- ✦ **LED Operating Life.** 3W Super-High Output LED rated at 20,000 hours operating life.
- ✦ **Rheostat.** Headband-mounted. Positive 'Off' switch. Illuminated 'On' indicator. Integrated voltage regulator.
- ✦ **Angle of Declination.** Fully adjustable for precise selection.
- ✦ **Spot Adjustment.** Continuously adjustable Iris Aperture. Range of 20 mm to 130 mm illuminated field diameter (at 500mm). Small diameter is ideal for ENT and Dental Applications.
- ✦ **Operating Time with mPack.** 4 hours with mPack and Li-ion battery for 70% more capacity than with conventional rechargeable batteries. mPack can be connected directly to mains power supply for unlimited operating time.
- ✦ **Optics.** Advanced multi-coated glass optics for maximum brightness.
- ✦ **Weight.** 70 grams for 3S LED only. 90 grams with rheostat and connection cable.
- ✦ **Flexibility.** Integrated attachment options for HR/HRP Binocular

Loupes and Prism for Video adaptation. Classification 1 M per EN 60825-1.

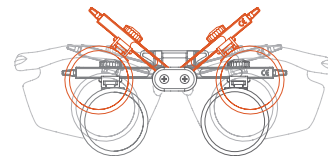
- ✦ **HEINE S-Guard®.** Innovative splash protection spectacles. Extremely light weight, comfortable to wear.
- ✦ **HEINE i-View® LoupeBracket.** The HeadLight and binocular loupes can be moved independently. If no magnification is required during the examination, the binocular loupe can be retracted. The illumination remains fixed on the point where light is required. The synchronised adjustment mechanism allows simple single-handed operation to return the binocular loupes to exactly the same position, i.e. all previously selected settings remain.
- ✦ **HEINE mPack® UNPLUGGED** Rechargeable battery integrated on the headband. 100% freedom of movement with mPack UNPLUGGED – no cable connections! The 3SLED HeadLight with mPack UNPLUGGED allows one-of-a-kind mobility without restriction or hindrance caused by cables, cords, or similar connections.
- ✦ **5-year warranty.** Against defects in manufacture and workmanship for a period of 5 years from the date of purchase.



3S LED HeadLight,
HR Binocular Loupe mounted on S-Guard,
Professional L Headband



mPack
Portable power supply



HR Binocular Loupe mounted
on i-View, S-Guard



mPack UNPLUGGED
Headband battery.



EN50 UNPLUGGED wall transformer



3S LED HeadLight / HR-Binocular Loupe /
S-Guard / mPack UNPLUGGED

[ORDER INFORMATION]

Recommended 3S LED/HR, HRP Kits

Recommended product order configurations to ensure the most flexibility the 3S LED/HR/HRP system has to offer. The following kits include main system elements but no carrying cases or ancillary accessories:

3S LED/HR, HRP Kit

Consisting of 3S LED with Professional L Headband, mPack and plug-in transformer, headband-mounted brightness control, S-Guard splash protection, i-View LoupeBracket, cleaning fluid

Kit 1: with HR Binocular Loupe	2.5x/340mm	J-08.31.345
Kit 2: with HR Binocular Loupe	2.5x/420mm	J-08.31.346
Kit 3: with HRP Binocular Loupe	3.5x/420mm	J-08.31.347
Kit 4: with HRP Binocular Loupe	4x/340mm	J-08.31.348
Kit 5: with HRP Binocular Loupe	6x/340mm	J-08.31.349

Recommended 3S LED UNPLUGGED / HR, HRP Kits

Contents similar to 3S LED/HR, HRP Kits 1-5 but with:
Wall transformer EN50 UNPLUGGED with 2 x mPack UNPLUGGED.

Kit 6: with HR Binocular Loupe	2.5x/340mm	J-08.31.390
Kit 7: with HR Binocular Loupe	2.5x/420mm	J-08.31.391
Kit 8: with HRP Binocular Loupe	3.5x/420mm	J-08.31.392
Kit 9: with HRP Binocular Loupe	4x/340mm	J-08.31.393
Kit 10: with HRP Binocular Loupe	6x/340mm	J-08.31.394

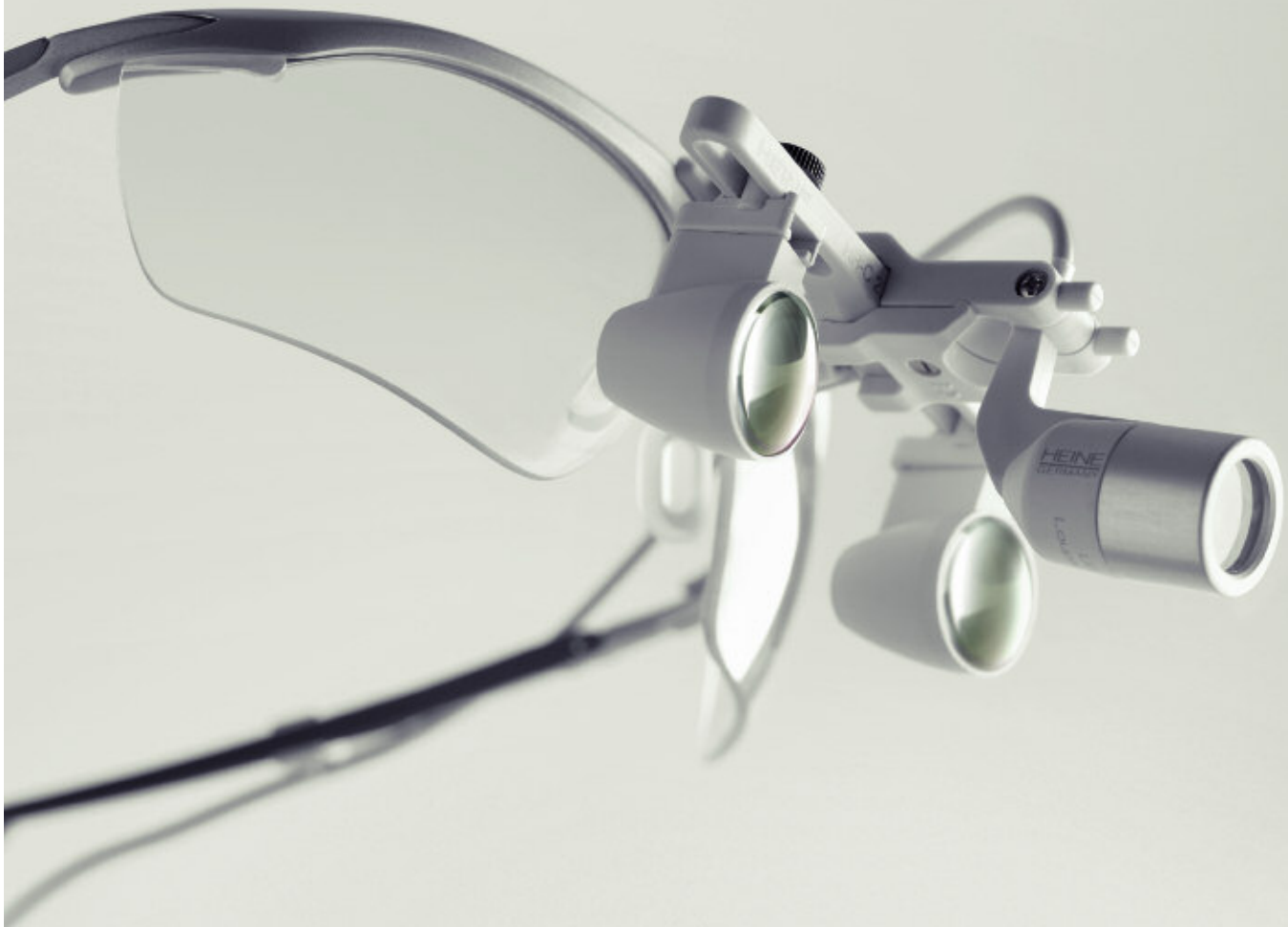
Correction frame for corrective lenses

C-00.32.309

HEINE QUALITY
MADE IN GERMANY

∴ **HEINE LED LoupeLight®**

Compact LoupeLight for HR-C,
HR and HRP Binocular Loupes.



[HEINE LED LOUPELIGHT® FOR HR - C/HR AND HRP BINOCULAR LOUPES]

Compact LED LoupeLight, ideal for surgical and dental applications.

- ✦ **Advanced LED Technology.**
White, homogenous light, ideal for all surgical and dental applications.
- ✦ **Coaxial Illumination.** For shadowless illumination of small cavities.
- ✦ **Super-Light.** Weighing only 12g for greatest user comfort over extended periods.
- ✦ **Powered by 2.5V or 3.5V HEINE Battery or Rechargeable Handle.**
Fully portable.
- ✦ **Adjustable for a Variety of Working Angles.** Optimal positioning of light.
- ✦ **Reduced UV Component. Ideal for Dental Applications.**
Brightness can also be controlled/reduced when working with UV-sensitive materials.
- ✦ **Long Life LED Technology.**
- ✦ **Water-Resistant.** Water-resistant to ensure ease of cleaning/disinfection.
- ✦ **Compatibility.** Compatible with all BETA battery handles, rechargeable handles and HR, HRP, HR-C and C 2.3K Binocular Loupes.
- ✦ **Operating Time:** 1.5 hours with 3.5V NiMH rechargeable handle. 3.5 hours with 3.5V Li-ion rechargeable handle.
- ✦ **Classification** 1M per EN60825-1.
- ✦ **The HEINE S-Frame®** is a truly exceptional spectacle frame: virtually all of its parameters can be customised – making it the perfect fit for any head or face shape. It is ultra-light, pleasant to wear and can be combined with all new HR, HRP and HR-C Binocular Loupes. In the S-Guard version for splash protection, the S-Frame can be used with Professional L and Lightweight Headbands.
- ✦ **5-year warranty.** Against defects in manufacture and workmanship for a period of 5 years from the date of purchase.



LED LoupeLight,
HR-C Binocular Loupe mounted on S-Frame

[ORDER INFORMATION]

LED LoupeLight

LED LoupeLight for HR/HRP/HR-C Binocular Loupes,
2.5V/3.5V

C-08.32.541

Power Sources

2.5 V

3.5 V

BETA battery handle

X-01.99.118

BETA R rechargeable handle

X-02.99.376

BETATR rechargeable handle

X-02.99.384

incl. transformer

BETA NT rechargeable handle and

NT200 charger

X-02.99.420

BETA SLIM rechargeable handle

X-02.99.471

BETA SLIM rechargeable handle and

NT200 charger

X-02.99.470

BETA Belt Clip

X-00.99.008

Correction frame for corrective lenses

C-00.32.309



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 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.

We reserve the right to change specification without notice.

Your distributor

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