

HEINE QUALITY
MADE IN GERMANY



LED HO

LED NOW IN HEINE QUALITY.

Quality in a new light
: **HEINE OMEGA® 500**
Indirect Ophthalmoscope

 **DEVICE
TECHNOLOGIES**

Pioneering Possibility.



Our Best Indirect
Ophthalmoscope, now with
LED and XHL Technology

The focus remains in providing high Quality, Performance and Flexibility.

Ultimately you are investing in an indirect ophthalmoscope. For HEINE, the quality of your indirect system begins with the optics. The OMEGA 500 offer adjustments and flexibility, and utilises durable materials to provide you with the performance and reliability you demand.



STEREO VIEWS REGARDLESS OF PUPIL SIZE

The OMEGA 500 gives you the freedom to adjust your optical alignment to maximise your view in all pupils. The synchronised convergence and parallax adjustment system is free of presets, allowing stereo views in pupils ranging from 1 mm through 10 mm.



DUST-PROOF GUARANTEED

By mounting the optics on an aluminum chassis, Heine stand by their dustproof construction - and offer a lifetime guarantee.



PERFORMANCE AND FLEXIBILITY

With the OMEGA 500, all you need is right at your fingertips. Three spot sizes and a diffuser are integrated, along with three filters: yellow filter for patients who are sensitive to light, red-free filter, and a cobalt blue filter. The tiltable mirror allows you to adjust the light beam + or -4 degrees.



DESIGNED FOR COMFORT AND ERGONOMICS

The headband of the OMEGA 500 is well balanced and comfortable due to its strong and malleable materials and adjustment possibilities. Height, distance, and angle positioning for your optics, combined with independent interpupillary adjustment and ergonomic control placement allow for a customised fit and intuitive operation.





XHL OR LED?

STILL THE STANDARD: HEINE XHL-TECHNOLOGY

XHL RELIABLE, ACCURATE, FAMILIAR:
HEINE XHL-TECHNOLOGY

XHL Xenon-Halogen-Technology has set the standard for the evaluation of new light technologies because it offers the ideal colour rendering that health professionals have examined the eye with and depended on for decades.

But now there is another illumination option that meets this standard: LED-Technology. Now you are able to make a choice without compromise: tried and true XHL, or LED in HEINE Quality.



FUTURE CHANGE OF MIND NOT EXCLUDED

Times are changing. Opinions too. And sometimes it's just the desire for new things that prevails. It doesn't matter if it's a brand new or an older OMEGA 500; you have the ability to easily change between Halogen- and LED-illumination. For more information on upgrading from XHL, contact your Device Technologies representative.

Which is right for you?

SEE THE EYES IN A DIFFERENT LIGHT: WITH HEINE LED



EXACT BRIGHTNESS CONTROL

For proper brightness control and flexibility we've adapted the rheostat to accommodate for the characteristics of LED- and XHL-Technologies. The HC 50 L can be used in conjunction with the LED- and the XHL-system without any alterations or switches.



HOMOGENEITY

To be able to discern even the slightest alterations of the retina, a homogeneous, distortion-free illumination of the field of view is important. The optics and illumination system of the OMEGA 500 have always been known for this feature, and LED^{HQ} is no exception.



COLOUR RENDERING

The Colour Rendering Index (CRI) indicates how exactly colours are reproduced in comparison with daylight. The closer this value is to the maximum of 100, the more accurate the lighting system is. The OMEGA 500 with LED produces an excellent CRI value of 90, and is strong in its rendering of the colour red in particular, with a value of 75. Combined with a colour temperature of 4000 K, this means that should you choose LED or opt to change from XHL- to LED-Technology, the colour rendering remains almost unaltered.



THERMAL MANAGEMENT

Proper thermal management is required for a LED illumination to ensure consistent light output and maximum lifetime. Our LED module is constructed of heat conducting materials to ensure a fast dissipation of the heat, as we strive to guarantee a consistent brightness.



LIFESPAN AND ON TIME

By utilising the latest LEDs and high quality materials, our LED-Technology ensures a long working life (up to 20,000 hours). Additionally, rechargeable batteries last longer when powering an LED light source compared to XHL, resulting in an increased operating time.



LED NOW IN HEINE QUALITY.

GUARANTEE



HEINE makes no compromises in manufacturing high quality medical instruments. Our commitment to vertical integration in manufacturing means we control all aspects of our instrument quality, from utilising carefully selected, well-matched materials to a high level of hand assembly. This ensures that each HEINE instrument meets, with the aim to exceed, the requirements in a medical environment. We stand behind this commitment with a 5 year guarantee!





No Detail is Overlooked

COMFORT BEGINS WITH THE FIT AND ERGONOMICS

WORKING IN BALANCE

The aim of the OMEGA 500 headband: maximum wearing comfort. The inclined overband has been designed to provide a 50/50 weight balance, evenly distributing the downward force, to avoid neck strain. The strong, malleable material and padding form to your anatomy for a soft, secure fit without pressure points.

INTUITIVE OPERATION AND FEATURES

The ergonomically arranged controls for the selection of apertures and filters are equipped with soft-touch surfaces and are easily adjusted while wearing the instrument. The locking mechanisms will keep your controls in the desired position, protecting against accidental changes, but will disengage without taking off the instrument. The cables are integrated in the headband and contribute to handling and operation.

FLIP-UP SYSTEM FOR EASY COMMUNICATION

The locking flip-up system of the headband has been developed to allow you to securely raise and lower your optics. The optics can be raised and securely fixed without changing the settings, for easy communication with the patient.

RHEOSTAT POSITIONING

Why reach across your body to adjust the brightness control of your indirect ophthalmoscope? With the OMEGA 500 you won't need to, because the HC 50 L Rheostat can be mounted on either the left or right side of the indirect ophthalmoscope. The change is quick and easy and can be done by the users on their own.

Power Your Way

FLEXIBLE AND MODULAR POWER SYSTEM

A SYSTEM FOR EVERY ENVIRONMENT

Because of the quality of the OMEGA 500, it often accompanies its owner for a life time. From school and training, through to a practice or hospital environment. With a complete and flexible power source offering, your OMEGA 500 can adapt to any environment. If your needs or requirements change, the power sources are modular and completely interchangeable.

mPACK PORTABLE RECHARGEABLE BATTERY

Rechargeable battery that you can wear clipped on your belt or in your pocket.

- ❖ Up to 20 hours of ON time with LED illumination.
- ❖ Minimum 4 hours of ON time with XHL illumination.
- ❖ 2 hours quick charge time.
- ❖ 5 step battery level display tells you the remaining battery charge as well as the charge status.
- ❖ Our mobile charger allows you to power your instrument and charge it at the same time.
- ❖ For office based environments we offer the wall mountable EN 50 Transformer.

OMEGA 500 UNPLUGGED Kit with Wall Transformer EN 50 UNPLUGGED

Kit containing the OMEGA 500 with LED- or XHL-Technology, the HC 50 L Headband Rheostat, the Wall Transformer EN 50 UNPLUGGED and 2 Headband-mounted Rechargeable Batteries mPack UNPLUGGED.

LED-Illumination: C-008.33.536

XHL-Illumination: C-004.33.542

OMEGA 500 UNPLUGGED Kit with Headband-mounted Rechargeable Battery mPack UNPLUGGED

Kit containing the OMEGA 500 with LED- or XHL illumination, the HC 50 L Headband Rheostat, a Headband-mounted Rechargeable Battery mPack UNPLUGGED and the corresponding Plug-in Transformer.

LED-Illumination: C-008.33.535

XHL-Illumination: C-004.33.541

OMEGA 500 Kit with mPack Rechargeable Battery

Kit containing the OMEGA 500 with LED- or XHL-Technology, the HC 50 L Headband Rheostat, the Rechargeable Battery mPack and the corresponding Plug-in Transformer.

LED-Illumination: C-008.33.533

XHL-Illumination: C-004.33.539

mPACK UNPLUGGED HEADBAND-MOUNTED RECHARGEABLE BATTERY

Provides freedom, no cables, and without compromising performance.

- ❖ More than 8 hours of ON time with LED illumination.
- ❖ Minimum 2 hours of ON time with XHL illumination, depending on the brightness setting.
- ❖ 2 hours quick charge time.
- ❖ 5 step battery level display tells you the remaining battery charge as well as the charge status.
- ❖ Our mobile charger allows you to power your instrument and charge it at the same time.
- ❖ For office based environments we offer the Wall Transformer EN 50 UNPLUGGED with automatic ON/OFF function and the ability to charge a spare battery.

TABLE-TRANSFORMER EN 50

If a mobile operation isn't necessary, the OMEGA 500 can be operated with the table or wall mountable EN 50 Transformer.





RESEARCH, DEVELOP, TEST, REFINE, THEN INTRODUCE.

HEINE Quality is what generations of doctors have relied on. For us, innovation means to listen to our users attentively and develop products that improve their every-day work.

With this philosophy, we strive to improve the indirect ophthalmoscope. We developed a synchronised convergence and parallax adjustment system to offer maximum versatility. We offer durable instruments that come with our dust-proof guarantee.

We refuse to use our customers as product testers for the sake of being first to market. We prefer to wait until technology develops to the point it benefits our customers. Therefore we cooperate closely with the users of the instruments during the development process.

This philosophy is evident in our LED HQ illumination system. We weren't the first to offer LED illumination in an indirect ophthalmoscope, but we were the first and only ones who are able to offer it in HEINE Quality.

HEINE was founded in 1946 and is an independent, family-owned company which is a leader in the international market with a complete range of diagnostic instruments. Over 500 employees worldwide contribute to this success.

We reserve the right to change specification without notice.
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