

**HEINE** QUALITY  
MADE IN GERMANY



**LED** HO

LED NOW IN HEINE QUALITY.

Quality in a new light  
: **HEINE OMEGA<sup>®</sup> 500**  
Indirect Ophthalmoscope





Our Best Indirect Ophthalmoscope  
is now twice as good:  
With LED- and XHL-Technology

# The focus remains providing the ultimate in 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 offers adjustments and flexibility not available in any other instrument, and utilizes the most durable materials to provide you with the performance and reliability you demand.



## STEREO VIEWS REGARDLESS OF THE PUPIL SIZE

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



## 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, green filter for red-free images, and a cobalt blue filter. The tiltable mirror allows you to adjust the light beam + or - 4 degrees.



## MAINTENANCE FREE

The 100 % guaranteed dustproof construction and mounting of the optics on an aluminum chassis make the OMEGA 500 maintenance free and durable.



## DESIGNED FOR COMFORT AND ERGONOMICS

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





## XHL or LED?

STILL THE STANDARD:  
HEINE XHL-TECHNOLOGY

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### **XHL**

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#### **RELIABLE, ACCURATE, FAMILIAR: HEINE XHL-TECHNOLOGY**

HEINE XHL Xenon-Halogen-Technology has set the standard for the evaluation of new light technologies because it offers the perfect 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: our new LED-Technology. Now you have a choice with no compromises: tried and true XHL, or LED in HEINE Quality.

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#### **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 OMEGA500; you have the ability to easily change between the Halogen- and the LED-illumination. For more information on upgrading from XHL, contact HEINE or your authorized distributor.

## Which is right for you?

### SEE THE EYES IN A NEW LIGHT: WITH HEINE LED



#### EXACT BRIGHTNESS CONTROL

For proper brightness control and flexibility we've adapted the rheostat to accommodate for the unique characteristics of LED- and XHL-Technologies. The new HC50L 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 OMEGA500 have always been known for this feature, and the new LED<sup>HQ</sup> is no exception.

CRI  
90

#### 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 OMEGA500 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 4000K, 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 assure a fast dissipation of the heat. This guarantees a consistent brightness of the LED during the whole working life.

LONG  
LIFE

#### LIFESPAN AND ON TIME

By utilizing the latest LEDs and highest quality materials, our LED-Technology ensures a virtually unlimited working life (up to 20,000 hours). Additionally, rechargeable batteries last longer due to the increased operating time and the reduced number of charging cycles.

LED<sup>HQ</sup>

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 or exceeds all requirements in any medical environment. We stand behind this commitment with a 5 year guarantee!



## No Detail is Overlooked

### COMFORT BEGINS WITH THE FIT AND ERGONOMICS

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#### **WORKING IN PERFECT BALANCE**

The aim of the OMEGA500 headband: maximum wearing comfort. Beginning with the inclined overband that reduces downward force which relieves strain on your neck muscles. The strong, malleable material and padding form to your anatomy for a soft, secure fit without pressure points.

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#### **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. Exclusive locking mechanisms will keep your controls in the desired position, protecting against accidental changes, but will disengage without taking off the instrument. The cords are integrated in the headband and contribute to a safe handling and operation.

#### **FLIP-UP SYSTEM FOR EASY COMMUNICATION**

The exclusive 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 an easier communication with the patient.

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#### **RHEOSTAT POSITIONING**

Why reach across your body to adjust the brightness control of your indirect ophthalmoscope? With the OMEGA500 you will never have to, because the HC50L 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 OMEGA500, it often accompanies its owner for a life time. From school and training, through to a practice or hospital environment. With the most complete and flexible power source offering, your OMEGA500 will 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.
- Exclusive 5 step battery level display tells you the remaining battery charge as well as the charge status.
- Our exclusive mobile charger allows you to power your instrument and charge it at the same time.
- For office based environments we offer the wall mountable EN50 charging station.

### mPACK UNPLUGGED HEADBAND-MOUNTED RECHARGEABLE BATTERY

Complete freedom, no cord, and no compromises regarding 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.
- Exclusive 5 step battery level display tells you the remaining battery charge as well as the charge status.
- Our exclusive mobile charger allows you to power your instrument and charge it at the same time.
- For office based environments we offer the wall charger EN50 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 OMEGA500 can be operated with the table or wall mountable EN50 transformer.

### OMEGA 500 UNPLUGGED Kit with Wall-Charger EN 50 UNPLUGGED

Kit containing the OMEGA500 with LED- or XHL-Technology, the HC50 L Headband Rheostat, the Wall-Charger EN50 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 OMEGA500 with LED- or XHL illumination, the HC50 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 OMEGA500 with LED- or XHL-Technology, the HC50 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



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've continuously improved the indirect ophthalmoscope. We were the first to develop a synchronized convergence and parallax adjustment system which offers unmatched versatility. We were also the first to offer dustproof instruments that are more durable and maintenance free.

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 new LED<sup>HO</sup> 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 leads the international market with a complete range of diagnostic instruments. Over 500 employees worldwide contribute to this success.

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We reserve the right to change specification without notice.

Your distributor

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