HEINE QUALITY
MADE IN GERMANY

HEINE OMEGA 600 FAQ

Illumination

1. **What is the visionBOOST?**
   With a progressively aging population, ocular media opacities like cataract are becoming more common. This makes the diagnostic of the retina more difficult due to limited vision through the cloudy lens. Therefore we have developed a unique function that allows you to safely increase the illumination of the device above the regular light intensity, providing you up to 20 % more details of the observed area. We have called this innovative technology visionBOOST which is 100 % photobiologically safe for eye examinations if used according to the **Instruction For Use**.

2. **Is the use of visionBOOST safe for the eyes?**
   The OMEGA 600 and its visionBOOST is 100 % photobiologically safe for the user and the patient if used according to the **Instruction For Use**.

3. **Which is the maximum illumination intensity that can be reached with the OMEGA 600?**
   The OMEGA 600 illumination can be safely boosted up to 245 % compared to standard illumination at 100 %. The 245 % relate to 1.380 lx at a distance of 400 mm.

4. **Why is the OMEGA 600 only available in LED?**
   We want to provide the best diagnostic capabilities coupled by a long-lasting maintenance-free solution to our customers. For this reason, we only provide what we believe is the best illumination technology on the market. In comparison to XHL bulbs, HEINE LED^{HQ} have an extremely long lifetime, so that a bulb replacement is not necessary and we can offer a maintenance-free device with the OMEGA 600. It also offers the optimum color rendering and color temperature for the earliest, easiest and most accurate diagnosis.

5. **What is the life expectancy of the HEINE LED^{HQ}?**
   The medium life expectancy of the HEINE LED^{HQ} is > 60,000 hours which is equivalent to approximately 7 years of uninterrupted use (24 hours / 7 days per week). This extremely long lifetime explains why the OMEGA 600 is considered a maintenance-free device.

6. **How can I exchange the LED?**
   There is no need to exchange the HEINE LED^{HQ} during the lifetime of the product. Due to the unique and tailored HEINE thermal management technology, the LED provides more than 60,000 hours of continuous operation. Always offering the optimum color rendering and color temperature for the most accurate diagnosis. Always as good as the very first day throughout the entire lifetime of the product. We call this LED^{HQ}, or LED in HEINE Quality.

7. **What is the color temperature of the LED?**
   The color temperature is typically 3,000 K with a Color Rendering Index (CRI) of min. 90.

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Illumination

8. When should the size of the light spot be changed?

The light spot size can be adjusted to accommodate the patient's pupil size. This offers the opportunity to examine patients even with undilated pupils whilst using the smallest setting. To adjust the spot size, please refer to the **Instruction For Use** or have a look at our **YouTube video**.

9. When should the diffuser be used?

The OMEGA 600 diffuser helps to decrease ophthalmic lens glares and reflexes. This is particularly useful when learning the indirect ophthalmoscopy technique or when observing the far periphery of the retina.

10. What are the diameters of the individual light spots?

The OMEGA 600 offers 3 different spot sizes: large, medium and small. At a working distance of 400 mm, the illumination field generated has a diameter of respectively:

- Large: Ø 62.5 ± 2.5 mm
- Medium: Ø 33 ± 2 mm
- Small: Ø 16.5 ± 1.5 mm

11. Can the angle of the illumination be changed?

The illumination stream can be adjusted vertically between -4° and +7°.
This can help to minimize reflexes and to always have the light spot in the preferred position.

Optics

1. What is the stereoscopic adjustment technology?

This feature ensures the best possible stereoscopic view (3D vision perception) for any pupil size and from any possible observation angle (e.g. peripheral view).

Settings:

- When examining a dilated pupil, it is recommended to use the large pupil setting. (The lever facing straight forward – towards the lens)
- When examining the periphery of the eye or in case of undilated pupils, it is recommended to use the small pupil setting. (The lever facing towards the left side of the lens)
- The stereoscopic adjustment lever can be positioned anywhere between these two settings to select the optimum 3D view in any possible situation.

2. Why should I exchange the eyepiece with +2 D diopters for the 0 D ones?

The OMEGA 600 comes with pre-mounted eyepieces with +2 D lenses. This works for the majority of users. If, for any reason, the vision does not feel comfortable (e.g. for people who are short-sighted), you have the option to switch the eyepiece to the 0 D lenses, also delivered with any purchased OMEGA 600.

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Optics

3. What is the range of pupillary distance setting I have with the OMEGA 600?

The OMEGA 600 provides a pupillary distance range from 46 mm to 74 mm for each individual eye.

4. What is the Field Of View (FOV) onto the retina using the OMEGA 600?

The FOV of the retina that an examiner can observe primarily depends on the ophthalmic lens being used. The field of view applicable to the most common lenses is as follows:

- 16 D typ. 43°
- 20 D typ. 53°
- 30 D typ. 63°

Filter

1. What types of filters are available?

The OMEGA 600 offers blue, yellow and green (red-free) filters. For detailed information on the use of the filters, please refer to the **Instruction For Use** or have a look at our **YouTube video**.

2. When should the blue filter be used?

The blue filter is primarily used to perform a fluorescein eye stain test.
This examination is performed e.g.:

- To detect any damages of the cornea
- To detect foreign bodies in the anterior segment of the eye

3. When should the green filter be used?

The green filter is actually a “red-free” filter that increases the contrast and enhances the appearance of blood vessels. This helps determine abnormalities of the blood vessels pattern on the retina.

4. When should the yellow filter be used?

Specifically for highly photosensitive patients, the use of an indirect ophthalmoscope might create discomfort. For this reason, we have added a special yellow filter that can be used to decrease discomfort in this patient group during the examination. Specifically for pediatric examination, the yellow filter can facilitate the examination for both the examiner and the child.

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Power and Power Supply

1. **How long does the battery last?**
   The OMEGA 600 provides a stepless illumination adjustment function, from 3 % to 245 % of illumination intensity. The working hours of the battery ranges from 40 h to 1.5 h based on the illumination level used. With an average illumination intensity, as used in daily practice, the OMEGA 600 battery will last up to 8 hours.

2. **How can I change the battery?**
   The change of the battery is very easy, fast and self-explaining. For more information please check the **Instruction For Use.**

3. **How long does it take to charge the battery?**
   It typically takes 1.5 hours to recharge the battery from 0 % to 100 %.

4. **What are the charging options for the OMEGA 600?**
   You have 3 options for charging the OMEGA 600:

   - With the included E4-USBC charging cable
   - With the CW1 wall charger
   - With the charging case CC1 – offering the option to have an extra battery (CB1 battery) charged, in a compact charging case

5. **Which type of charging cable can be used for the OMEGA 600 and for the CC1 charging case?**
   HEINE strongly recommends the use of HEINE certified accessories and cables.
   Even though the OMEGA 600 and the CC1 charging case can be recharged directly with any common USBC cable, the use of cables that are not certified by HEINE can lead to a loss of the charging performance. We recommend the use of the E4-USBC charging cable.

6. **How long is the delivered charging cable?**
   The charging cable provided in every OMEGA 600 set is 2 meters long.

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HEINE OMEGA 600 FAQ

Guarantee, Maintenance & Disinfection

1. **How long is the guarantee?**
   Due to the legendary HEINE Quality, we offer a 5-year guarantee on material (except the battery), processing and construction. For detailed guarantee conditions, please refer to our website: www.heine.com/en/service-support/guarantee

2. **What is smoothSURFACE?**
   The sleek design of a product – specifically its surface – plays a major role when it comes to disinfection. We want to provide our customers an extremely easy and fast option to disinfect the product. Therefore we minimized sharp edges, exposed cables or screws, or unnecessary holes, niches and gaps, etc. in the design of the OMEGA 600. That is what we call smoothSURFACE.

3. **How do I disinfect the OMEGA 600?**
   Please find the detailed hygienic reprocessing guide for the instrument on our website.

4. **Does the OMEGA 600 require any regular maintenance?**
   The OMEGA 600 is designed to be a maintenance-free device. Depending on frequency of use, the changing of the faux leather paddings and the eyepieces might be necessary.

5. **How can I exchange the faux leather paddings of the OMEGA 600?**
   The faux leather paddings are attached to the OMEGA 600 via a Velcro fastening and can be therefore easily exchanged.

6. **How can I exchange the eyepieces with +2 D lenses for the one with neutral lenses (0 D)?**
   To best accommodate your view, you can exchange the initially mounted eyepieces +2 D with the neutral lenses 0 D (supplied with the OMEGA 600). Exchanging the eyepieces is easy:
   1) Unscrew both pieces counterclockwise until they detach.
   2) Attach the new eyepieces by screwing them clockwise until they are hand-tight.

7. **Can I adjust the OMEGA 600 brightness control to a left-handed use?**
   The position of the brightness control can be fitted on the right or on the left side depending on the user preference. For that you will need the delivered offset screwdriver. Please refer to the Instruction For Use to properly switch the side of the brightness control.

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Technical

1. **What is the weight of the OMEGA 600?**
   The OMEGA 600 weighs only 475 g (16.75 oz), battery included.

2. **What is the weight of the battery?**
   The battery of the OMEGA 600 weighs only 21 g (0.75 oz).

3. **Where can I find more technical details on the OMEGA 600?**
   You can find the **Instruction For Use** and the **product information sheet** with all relevant details and measurements related to the product on our website.

4. **How do I properly set up the OMEGA 600 for the best use possible?**
   Before the first use, please have a look at our **YouTube video: OMEGA 600 – How to set up the instrument**

Options and spare parts

1. **Is a breath shield option available for the OMEGA 600?**
   A breath shield is available and specifically designed for the OMEGA 600. It is designed to cover the mouth-nose-chin area and to offer undisturbed, clear vision for the diagnostic. The OMEGA 600 Breath Shield is available individually or in a set of 3 pieces.

2. **Can the teaching mirror (TM1) be used in combination to the OMEGA 600 Breath Shield?**
   The teaching mirror (TM1) can be used in combination with the breath shield mounted on the OMEGA 600. Please make sure to use the corresponding tape stripes.

3. **Can the teaching mirror (TM2) be used in combination to the OMEGA 600 Breath Shield?**
   The teaching mirror (TM2) cannot be used in combination with the Breath Shield.

4. **Is there a possibility to ensure a safe transport or storage of my OMEGA 600?**
   To make sure you can travel easily with your OMEGA 600, we offer a traveler bag which perfectly matches the shape of your BIO and offers ideal storage space for all the accessories of the OMEGA 600.

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