Headlight KS70

Highest quality medical illumination
In many medical specialties, optimal viewing and lighting conditions are an essential prerequisite for ensuring professional treatment, safety, and ergonomics. KARL STORZ is a pioneer in this field. Our comprehensive portfolio for a wide range of applications in ENT guarantees that you will never be “left in the dark.”

First presented at the Otorhinolaryngology Congress in Constance in 1955, it remains the top-selling model of “warm-light” headlights. It started a long tradition of headlight development and manufacture. At the time, it was a true innovation, and it remains the model on which the current KARL STORZ headlights are based.

CLAR 55 headlight with 55 mm concave mirror and light bulb.
Additional milestones in the history of KARL STORZ illumination systems

1960
The invention of the cold light source starts a new chapter in the company’s history.

1973
The CLAR73 headlight with fiber optic light cable and miniature concave mirror for monocular and binocular vision has been the most successful cold-light model since its 1973 launch at the Otorhinolaryngology World Congress in Venice.

2004
With the first battery-operated LED headlight, KARL STORZ offers users unprecedented portability and freedom of motion.

2005
The new headlight KS60 sets new standards in terms of luminous power, light quality, and wearing comfort.
LED headlight KS70

The newest development in the KS headlight portfolio – exceptional medical illumination

- Liquid lens in combination with high performance LED for optimal depth illumination
- Optimally adjustable size of illuminated field from 30 mm to 150 mm (at a distance of 40 cm). Large illuminated field allows the KS70 to be used in ENT and many other specialties
- Light intensity can be set to 3 levels

**White LED (at a distance of 40 cm)**

- High: approx. 32,000 Lux
- Mid: approx. 23,000 Lux
- Low: approx. 13,000 Lux

Max. LUX value, measured directly at the cover glass: 800,000 Lux

**Yellowish LED (at a distance of 40 cm)**

- High: approx. 29,000 Lux
- Mid: approx. 19,000 Lux
- Low: approx. 11,000 Lux

Max. LUX value, measured directly at the cover glass: 770,000 Lux

Liquid lens technology offers excellent illumination properties and optimal concentration of light energy without loss of brightness. The illuminated field diameter is not adjusted by an iris diaphragm cutting off the outer lit areas as is the case in conventional standard lenses but by curving the lens itself and hence by varying the angle of illumination and bundling the light. Since no mechanical components are used, the liquid lens is also much more robust and lightweight than conventional lens systems.
Flexible
The infinitely variable position and tilt adjustment of the lamp unit allows adaptation of the coaxial orientation of the illumination and observation path.

Adaptable
Headband with rapid adjustment, cross-band, and two rechargeable battery packs attached to the right and left of the headband for optimally balanced weight distribution. Adjustment options in combination with the padded forehead portion guarantee greater wearing comfort, even in longer procedures.

Modular
Separately replaceable rechargeable batteries, forehead pad, and lamp unit allow the rapid replacement of worn-out parts.

- Battery operating time of up to 18 hours for use in the office as well as the OR
- Visual capacity indicator via status LED and flashing light in case of low battery
- Two battery packs and charging device included
- Easy charging also via micro USB port
- Weighs approx. 340 g (incl. rigid headband and 2 rechargeable battery packs)
Battery-operated headlights with LED technology offer excellent features:

- No separate light source, no separate light cable, and no power grid required – making them excellent for use outside of hospitals as well
- Low power consumption – for less frequent battery replacements
- No lamp replacement (operating life ~50,000 h) – for reduced subsequent costs and maintenance
- Much higher light yield and light intensity than conventional “warm-light” headlights – for optimal illumination of the working field
- Little heat emitted – for comfortable wear even in longer procedures

Neoprene forehead cushion – for comfortable wear

Model versions:

- KS70 LED headlight with white LED and headband with cross-band, item no. 094220
  incl. Neoprene Cushion for Headband, with push-button lock, 3-part, item no. 078513
- KS70 LED headlight with yellowish LED and headband with cross-band, item no. 094230
  incl. Neoprene Cushion for Headband, with push-button lock, 3-part, item no. 078513
The KARL STORZ headlight portfolio

LED headlight

Headlight KS60

Headlight with ball joint and vertical height adjustment

The new LED headlight KS70

Headlight, lightweight model, office/OR

Headlight, lightweight model, office

Headlight CLAR 73
# KARL STORZ headlights

<table>
<thead>
<tr>
<th>Model</th>
<th>CLAR 73 Office</th>
<th>Lightweight model Office</th>
<th>Lightweight model Office/OR</th>
<th>Surgical headlight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Catalog item no.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>095501</td>
<td>Headlight CLAR 73, with 230 cm long integral fiber optic light cable, with straight plug to the cold light source, including: <strong>Headband</strong>, with cross-band <strong>Clip with band</strong></td>
<td>094320</td>
<td>Headlight, lightweight model, with thin, 230 cm long integral fiber optic light cable, with straight plug to the cold light source, including: <strong>Headband</strong>, extra-light, without cross-band <strong>Clip with band</strong></td>
<td>094051</td>
</tr>
<tr>
<td>095505</td>
<td>Same as above, with 90° deflected plug to the cold light source</td>
<td>094325</td>
<td>Same as above, with 90° deflected plug to the cold light source</td>
<td></td>
</tr>
<tr>
<td>094330</td>
<td>Same as above, with connector for use with thin, 230 cm long fiber optic light cable 495 NTAS with straight plug or 495 TXS with 90° deflected plug to the cold light source</td>
<td>094055</td>
<td>Same as above, including: <strong>Fiber Optic Light Cable</strong>, with 90° deflected plug to the cold light source</td>
<td></td>
</tr>
<tr>
<td><strong>Illuminated field size at a distance of about 40 cm</strong></td>
<td>approx. 60 mm</td>
<td>30 – 230 mm</td>
<td>20 – 80 mm</td>
<td>10 – 60 mm</td>
</tr>
<tr>
<td><strong>Adjustable illuminated field diameter (iris diaphragm)</strong></td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Special feature</strong></td>
<td>For &quot;one-eyed&quot; use in deep surgical fields</td>
<td>Light is self-retaining in all positions</td>
<td>Light is self-retaining in all positions</td>
<td>Predecessor of KS60 Sterile, slip-on handle Removable light cable for easy repair or exchange</td>
</tr>
</tbody>
</table>

© KARL STORZ 96052125 HNO 139 4.1 07/2017/EW
<table>
<thead>
<tr>
<th>Model</th>
<th>KS60 Surgical headlight</th>
<th>LED Office/OR</th>
<th>KS70 Office/OR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catalog item no.</td>
<td>310060 Headlight KS60, with double lens system and Y-Fiber Optic Light Cable including: Headband, with cross-band Y-Fiber Optic Light Cable Clip with Band</td>
<td>094100 LED Headlight, lightweight model, with white light, battery box at headband</td>
<td>094220 LED Headlight KS70, lightweight model, with white light, control unit, and rechargeable battery box at headband, charging device</td>
</tr>
<tr>
<td>310061 Same as above, including: Y-Fiber Optic Light Cable, with 90° deflected plug to the cold light source</td>
<td>094120 Same as above, with white light rechargeable battery box at headband</td>
<td>094230 Same as above, with yellowish light</td>
<td></td>
</tr>
<tr>
<td>094110 Same as above, with yellowish light, battery box at headband</td>
<td>094130 Same as above, with yellowish light, rechargeable battery box at headband and charging device</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Illuminated field size at a distance of about 40 cm</td>
<td>20 – 80 mm</td>
<td>10 – 100 mm</td>
<td>30 – 150 mm</td>
</tr>
<tr>
<td>Adjustable illuminated field diameter (iris diaphragm)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes, due to lens curvature</td>
</tr>
<tr>
<td>Special feature</td>
<td>Flagship among cold light headlights Illuminance &gt; 175,000 Lux Optimized double lens system With removable and sterilizable focus handle</td>
<td>With the extension cable 094105, the rechargeable or non-rechargeable battery handle can be separately stored in a scrub pocket. Illuminance of up to 50,000 Lux</td>
<td>Cutting-edge liquid lens technology Up to 18 hours of operating time Visual capacity indicator</td>
</tr>
</tbody>
</table>
Accessory for Headlight KS70

11301 DL  **Charging Unit**, for headlight KS70, for charging two battery packs, with fixed integrated power supply and adaptor for EU, UK, USA and AUS, power supply 90-264 VAC, 50/60 Hz, suitable for wipe disinfection, for use with USB charger for LED Headlights KS70 094220, 094230 and 094240

For more wearer comfort, we recommend neoprene forehead cushions:

078512  **Neoprene Forehead Cushion**, for headband, with push-button lock, 2-part, for use with Headbands 310075, 078740

078513  **Neoprene Forehead Cushion**, for headband, with push-button lock, 3-part, for use with Headbands 310070, 310076, 078730, 078760
It is recommended to check the suitability of the product for the intended procedure prior to use.