





## Ocular Khaw 4D Direct View Gonio Lens

|  | Product Code    | Gonio Image Mag | Contact OD | Lens Height | Ring Diam | Static Gonio FOV |  | Developed With:<br>Peng T. Khaw<br>MD, PhD<br>London, England.   |
|---|-----------------|-----------------|------------|-------------|-----------|------------------|---|--|
|   | <b>OK4DG</b>    | 0.80x           | 10mm       | 24mm        | 28.5mm    | 170°             |   |  |
|  | <b>OK4DG-1X</b> | 1.05x           | 10mm       | 23mm        | 28.5mm    | 150°             |  | Euro Pat. No.: 1 464 271<br>CH+LI DE GB<br><br> |

### Design

- The Khaw 4D Direct View Gonio Lens combines the most favorable features of traditional gonio prisms while providing a properly orientated view of the angle.
- 360° of anterior chamber angle is visible with little to no lens rotation.
- The smaller contact surface is particularly useful in compression gonioscopy.
- No methylcellulose required (NMR) lens design.
- It is lightweight and directly hand held which lends itself naturally to delicate maneuvers while observing the anterior chamber angle.
- Anterior chamber charting made easier with correct image orientation.
- A black serrated finger grip, or ring, extends above the anterior surface to provide protection.
- The mirrored surfaces are silvered with an exclusive double layer, protective coating to prevent peeling and damage under normal daily use.

### Technique

- Gonioscopy can be accomplished using one of two methods.
  - Method 1: Place the gonioscope on the eye with mirrors arranged perpendicular and planar to horizon.
    - Observation is begun in the inferior angle using the inferior mirror.
    - Next, raise the slit lamp beam to the superior mirror to check the superior angle.
    - Finally, with the beam horizontal and tilted, observe the angle near the 180° meridian.
  - Method 2: Place the gonioscope on the eye with the mirrors arranged obliquely (diamond position).
    - With the slit lamp beam vertical, simply move the slit lamp from right to left across the two inferior mirrors.
    - Next, raise the beam and move the slit beam from left to right across the two superior mirrors. Complete observation of the angle can be quickly achieved with minimal rotation of the lens.
- Because of the light weight and small size of this gonio lens, it is easily applied to the eyes of small children and individuals with narrow palpebral fissures.
- Deliberate compression with the gonioscope (dynamic gonioscopy) gives the observer a certain amount of control over the iris configuration. Note that depression is opposite conventional prisms. Depress the side opposite the angle to be observed.
- In an eye with a relatively narrow angle, deeper structures can be visualized by flattening the periphery of the iris gonioscopically.
- It is also used to distinguish between true peripheral anterior synechiae and simple apposition of the iris to the cornea.
- The center axis may be used to view the posterior pole and disc.

**Cleaning**

Rinse: Immediately upon removal from patient's eye, thoroughly rinse in cool or tepid water.

Wash: Place a few drops of mild soap on a moistened cotton ball. Gently clean with a circular motion.

Rinse: Thoroughly rinse in cool or tepid water, then dry carefully with a *non-linting* tissue.

Then: Proceed with either disinfection or sterilization instructions.

**Disinfection**

|   |   |  |           |   |  |  |
|---|---|--|-----------|---|--|--|
| Soak In:  | <b>GLUTARALDEHYDE</b>   |  | <b>OR</b> | <b>BLEACH</b>   |  |  |
|   | 2% or 3.4% aqueous solution   |  |           | 10% solution mixed at:<br>1 part bleach to 9 parts cool tepid water |  |  |
|   | Temperature per<br>manufacturer instructions  |  |           | Recommended exposure time = 10 minutes                              |  |  |
|   | Recommended exposure time = 20 minutes  |  |           |   |  |  |
| <b>Caution</b> <i>To avoid damage to the lens, do not exceed recommended exposure time.</i> |   |  |           |   |  |  |
| Then:   | Rinse lens <i>thoroughly</i> to remove disinfection solution.<br>3 cycles of 1 minute, with cool or tepid water is recommended.<br><br>Dry carefully and place in a dry storage case. |  |           |   |  |  |
| NOTE  | This lens is known to be compatible with: Asepti-Wipe, Cavi-cide, Cidex, Cidex OPA, DisCide Wipe, Enviro-cide, and Opti-Cide  |  |           |   |  |  |
| <b>Caution</b>  | <b><i>If used on an ulcerated cornea, lens must be STERILIZED before next procedure.</i></b>  |  |           |   |  |  |

**Sterilization**

| AUTOCLAVE      | STERRAD | STERIS SYSTEM 1  | ETO       | ETO Parameters |              |               |
|----------------|---------|--|-----------|----------------|--------------|---------------|
| No             | No      | NO   | YES       | Minimum Time   | Temperature  | Aeration Time |
|                |         |  | See Right | 1 hour         | 130°F (54°C) | 12 hours      |
| <b>WARNING</b> |         | <b><i>Never Steam Autoclave or Boil listed lenses.<br/>Never soak in Alcohol, Acetone or Other Solvents.</i></b> |           |                |              |               |

For information on compatibility with alternative product care methods, contact Customer Service.

