

Press Release

Keratoplasty with SCHWIND AMARIS Technology New PTK-CAM Option for Therapeutic Treatments

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SCHWIND now offers the KPL (Keratoplasty) option for safe and precise corneal transplants. This method is suitable for all patients for whom keratoplasty is indicated: for example for treating deep corneal scars following injuries, corneal dystrophies and advanced keratoconus. No eye suction is required with laser-assisted KPL. With KPL, corneas can be treated up to a maximum depth of 999 micrometres. KPL can be used for penetrating keratoplasty.

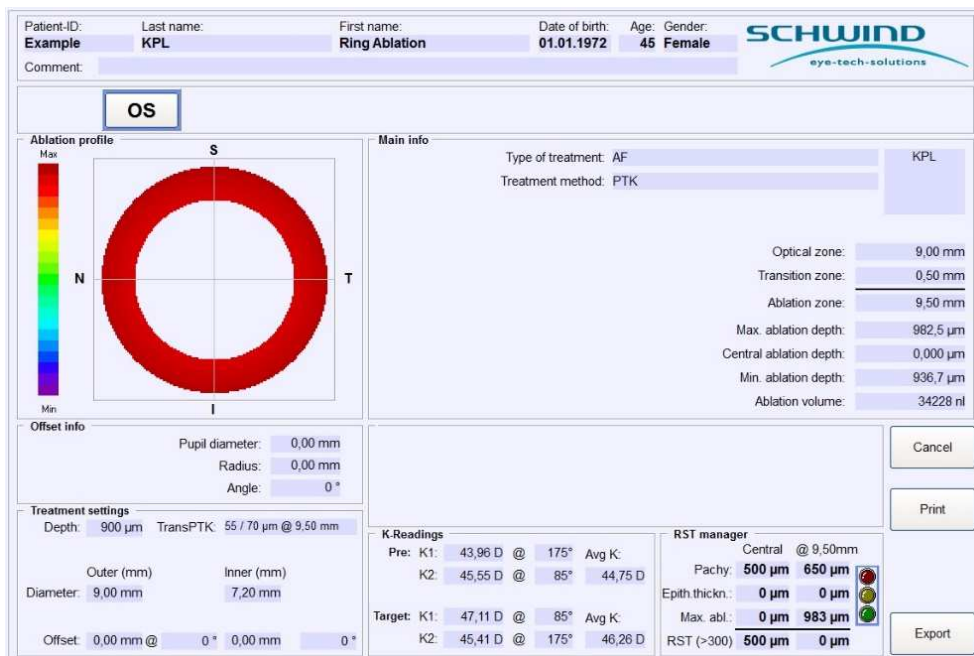
With penetrating keratoplasty, the donor and recipient cornea are treated, without contact, using the AMARIS laser system. As a rule, the physician employs special ring masks in order to achieve sharp cornea edges and a perfect fit. Whilst separation of the tissue with the excimer laser takes somewhat longer compared with a femtosecond laser, the results in terms of centration and alignment are considerably more precise. Result: less astigmatism, a more homogeneous cornea and an improved vision outcome.

KPL is part of the PTK-CAM toolbox and module of SCHWIND CAM software. The KPL application requires a separate activation for each AMARIS laser system. Prior to each application, an additional safety message appears to check whether corneal perforation is indeed desired

The PTK-CAM module provides support for therapeutic treatments: both superficial and deep corneal scars and corneal degeneration can be corrected precisely. You can choose between superficial refractive-neutral or deep ablation for keratoplasty. PTK-CAM is based on the method of phototherapeutic keratectomy (PTK).

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The screenshot displays the SCHWIND PTK-CAM software interface. At the top, patient information is entered: Patient-ID: Example, Last name: KPL, First name: Ring Ablation, Date of birth: 01.01.1972, Age: 45, Gender: Female. The eye being treated is OS (left eye).

The main interface is divided into several sections:

- Ablation profile:** Shows a circular ablation profile with a color scale from Min (blue) to Max (red). The profile is a red ring centered on the eye's optical axis.
- Main info:** Type of treatment: AF, Treatment method: PTK, KPL.
- Offset info:** Pupil diameter: 0,00 mm, Radius: 0,00 mm, Angle: 0°.
- Treatment settings:** Depth: 900 µm, TransPTK: 55 / 70 µm @ 9,50 mm. Outer diameter: 9,00 mm, Inner diameter: 7,20 mm. Offset: 0,00 mm @ 0°.
- K-Readings:** Pre: K1: 43,96 D @ 175°, Avg K: 44,75 D; K2: 45,55 D @ 85°. Target: K1: 47,11 D @ 85°, Avg K: 46,26 D; K2: 45,41 D @ 175°.
- RST manager:** Central @ 9,50mm. Pachy: 500 µm, 650 µm. Epith thic kn.: 0 µm, 0 µm. Max. abl.: 0 µm, 983 µm. RST (>300): 500 µm, 0 µm.

Buttons for Cancel, Print, and Export are visible on the right side of the interface.

Preparation of a penetrating keratoplasty with PTK-CAM