

Corneal Topography and Dry Eye Device



AI Overview

Modern devices like the TERA Dry Eye Imager, DEA520, Cornea 550+, and Keratograph 5M combine corneal topography with advanced dry eye diagnostics for comprehensive ocular surface evaluation. Key Features of Combined Devices

Corneal Topography: All these devices provide detailed mapping of the anterior cornea, including keratometry, Zernike wavefront analysis, and curvature maps, which are essential for detecting corneal irregularities, keratoconus, and planning refractive or cataract surgeries (TERA, DEA520, Cornea 550+, Keratograph 5M).

Dry Eye Assessment: They integrate multiple non-invasive tests for dry eye evaluation:

- Non-Invasive Tear Break-Up Time (NIBUT)** to assess tear film stability (TERA, Keratograph 5M, Cornea 550+).
- Meibomian Gland Imaging (Meibography)** to visualize gland structure and loss (TERA, DEA520, Cornea 550+, Keratograph 5M).
- Lipid Layer and Tear Meniscus Analysis** to evaluate tear film quality and volume (TERA, Keratograph 5M).
- Fluorescein and Lissamine Green Imaging** for ocular surface staining and contact lens assessment (TERA, DEA520).

Automation and Workflow: Devices like TERA and Keratograph 5M feature automated alignment, focus, and capture, reducing exam time and improving consistency. High-resolution, reflection-free imaging ensures clear visualization for diagnosis and patient education.

Patient-Reported Outcomes: Integrated dry eye questionnaires such as OSDI-6, DEQ-5, and McMonnies allow standardized symptom assessment, supporting diagnosis and follow-up (TERA, DEA520).

Reporting and Analysis: Structured reporting software enables clinicians to generate comprehensive reports, compare sequential exams, and guide personalized treatment plans (TERA Review Software, DEA520, Cornea 550+).

Clinical Applications

- Diagnosis and Monitoring:** Detects corneal irregularities, keratoconus, and dry eye severity.
- Treatment Planning:** Guides custom contact lens fitting, refractive surgery planning, and dry eye therapy.
- Patient Education:** High-resolution...

Article Content

DEA520 Corneal Topographer

DEA520 has a wealth of measurement points, three light sources, and a comprehensive dry eye diagnostic process. The above features will allow you to

Evaluation Of Corneal Thickness And Dry Eye In Diabetic Patients ...

The fundamental cause of dry eye in diabetic patients is the reduction in tear secretion due to lacrimal gland dysfunction. Our aim is to compare dry eye, central corneal thickness, central corneal epithelial

LASIK in 2026: Wavefront-Optimized vs. Topography-Guided Explained

Superior astigmatism correction: By treating the corneal irregularities that cause astigmatism, topography-guided LASIK delivers clarity that glasses and contacts struggle to match, especially for

What Is Optical Coherence Tomography?

Optical coherence tomography (OCT) is a non-invasive imaging test that uses light waves to take cross-section pictures of your retina, the light-sensitive tissue lining the back of the eye.

OCULUS Keratograph 5M debuts colour to topography!

Keratograph 5M technology is a revolution in corneal topography and dry eye analysis. The high-resolution colour camera and the integrated magnification changer offer a new perspective

OCULUS KERATOGRAPH 5M INSTRUCTION MANUAL Pdf Download

View and Download OCULUS Keratograph 5M instruction manual online. System for measuring and analyzing the cornea topography. Keratograph 5M medical equipment pdf manual download.

Full Corneal Topography System with Dry Eye Analysis HTG-1

HTG-1 offers an integrated evaluation of corneal topography and dry eye diagnosis in a single device, allowing for an accurate assessment of overall eye health.

Corneal Topography: Eye Mapping Before Vision Care

Corneal topography is a painless eye mapping test that shows the cornea's shape to guide vision correction, contact lens fitting, and diagnosis.

Precision Corneal Topography | Vision Care | OCUWELL

OCUWELL is a simple and portable device that allowed me to capture corneal images of patients in under 2-3 minutes, and use these

Corneal Topography

Step 6 . Compare with slit lamp findings again. It should always be kept in mind that corneal topography can be effected by corneal artifacts and therefore interpretative value is decreased in cases such as

AOA 2026: The latest updates in keratoconus treatment advancements

Although both the biomechanical device and the topography-guided cross-linking platform are not yet available in the US, the results were favorable: despite an epi-on technique, corneal

OS1000 Corneal Topography with Dry Eye Platform

The OS1000 Corneal Topography with Dry Eye Platform is a next-generation diagnostic solution that combines two critical ocular evaluations in a single

A Guide to Corneal Topography with Cheat Sheet

Brush up on corneal topography and tomography basics, including when to consider and how to interpret corneal elevation maps on the go.

Grafton Optical

We are pleased to announce our appointment as the exclusive UK distributor for the Mediworks AL551 Automatic Optical Biometer, a new generation biometry and corneal topography platform designed

TERA Dry Eye Imager™ | Topcon Healthcare

The TERA Dry Eye Imager is a multimodal platform purpose-built to detect, grade, and manage dry eye disease. Powered by robotic automation and high-resolution imaging, TERA standardizes capture,

5872 TERA Dry Eye Image Brochure_A4_210x297

For Confident Ocular Surface Evaluation. The TERA Dry Eye Imager is a full Placido based corneal topographer designed for the comprehensive assessment of corneal properties and pupil metrics.

Cornea 550 +

It combines multiple diagnostic modalities into one device, streamlining the assessment of corneal surface conditions, contact lens fitting, and dry eye

One Device Corneal Topography & Dry Eye Diagnosis

Huvitz's newly introduced HTG-1 is an integrated solution that combines corneal topography and dry eye diagnosis into a single device, enabling a

How to interpret corneal topography: 5 clinical uses

Learn how to interpret corneal topography imaging along with the 5 most common patterns you must be able to recognize. We will review what corneal topography and tomography

TERA from Topcon Healthcare | Dry Eye Imager

The Topcon TERA combines advanced Placido-based corneal topography with a comprehensive Dry Eye Suite – designed to support confident evaluation and management of ocular surface disease.

Corneal Topography Guide

Combined multi-modal platforms: Integration of topography, tomography, and biomechanical metrics for comprehensive corneal profiling.

Astigmatism Correction in 2026: Toric IOLs, LRIs, and Imaging ...

Astigmatism correction is essential in 2026, as patient expectations continue to rise alongside advances in available technology. Ocular surface optimization (e.g., dry eye, Salzmann

Topography to Screen Refractive Cataract Surgery Patie...

SCREEN FOR DRY EYE I carefully evaluate the ocular surface of every patient scheduled for a cataract consultation. Considered a lens-based refractive procedure now, cataract surgery has to be

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://adicor.eu>

Email: info@adicor.eu

Phone: +33 6 48 37 92 15

Address: 12 Rue de la Paix, 75002 Paris, France

This document is for informational purposes only. Specifications subject to change without notice.

