

Corneal Topography 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

Easygraph

Mounting directly on the slit lamp, this space-saving corneal topographer incorporates assessment of the cornea directly into the examination process.

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

Cornea 550 +

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

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

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,

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

Enhancing Dry Eye Diagnosis

A more established diagnostic technique for dry eye evaluation is corneal topography. After Hartmann-Shack wavefront analysis was shown to correlate with clinical dry eye evaluations,¹²

ZEISS Medical Technology previews refractive workflow innovations

A multimodal look at the next generation of corneal topography The ZEISS ATLAS® 500 is a new corneal topography system which offers precise pupillometry, dry eye assessment and

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

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.

Corneal topographer

Find your corneal topographer easily amongst the 31 products from the leading brands (HAAG-STREIT, NIDEK, Suoer, ...) on MedicalExpo, the medical

Phoenix Meibography Workstation

Phoenix Meibography Workstation The Marco Phoenix Meibography Workstation is a state-of-the-art device that provides thorough dry eye assessments in addition to corneal topography measurements.

Keratograph® 5M

Automated, precise and clear as possible for consultations. The OCULUS Keratograph ® 5M is an advanced corneal topographer with a built-in real keratometer and a color camera optimized

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

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

Stromal Transplantation and corneal-sparing techniques in ectatic ...

Corneal ectatic and degenerative disorders have traditionally been managed with tissue-replacement strategies such as penetrating keratoplasty (PK) an

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CORNEA CENTER POSITIONING METHOD FOR EXCIMER LASER

Abstract: A cornea center positioning method for excimer laser keratomileusis includes the following steps of establishing a horizontal offset model and a vertical offset model by way of measuring the

DEA520 Corneal Topographer

2 in 1 Ocular Diagnostic MasterDEA520 is a multi-purpose corneal topographer that integrated dry eye and corneal topography analysis.

Corneal Topography Guide

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

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.

Keratograph® 5M

OCULUS Keratograph® 5M is an advanced corneal topographer with a built-in real keratometer and a color camera optimized for external imaging.

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

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

CLEAR in Astigmatism and Myopia

Residual thickness of stromal bed that is less than 250 microns from the corneal endothelium Abnormal corneal topographic findings, e.g. keratoconus, pellucid marginal

Contact Us

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