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EYEΦOS. Ε

Microscan Visum

NEW



FULL RANGE OF FEMTOSECOND LASER
CORNEAL SURGERY APPLICATIONS
FOR DAILY CLINICAL PRACTICE
INTEGRATED LENTICULE EXTRACTION PROCEDURE

MICROSCAN VISUM

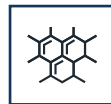
UPHOLD THE HIGHEST STANDARDS OF REFRACTIVE SURGERY IN
YOUR PRACTICE WITH MICROSCAN VISUM UNIQUE FEATURES

Market-highest repetition rate and Super Gauss beam energy profile assure the tissue saving, safe and precise daily operations.



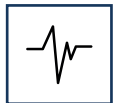
SPEED

1.19 sec per D



TISSUE SAVING

12.9 um per D



FREQUENCY

1100 Hz



ROUGHNESS

190 nm



ENERGY PROFILE

Super Gauss



PLATFORM

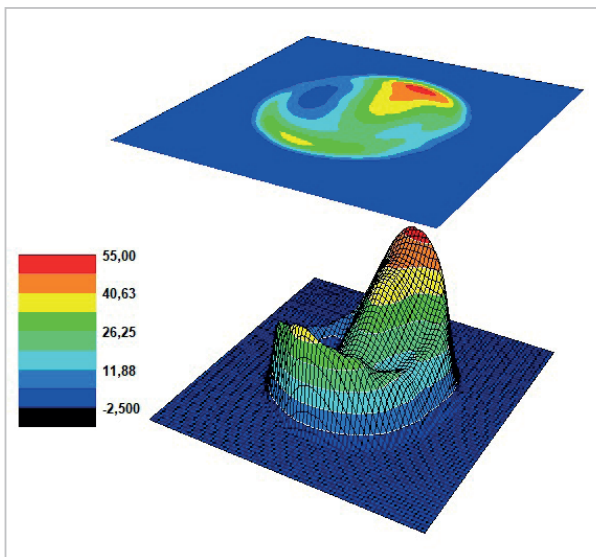
Integrated platform with
Femto Visum femtosecond laser

CUSTOMIZED ABLATION PROFILE

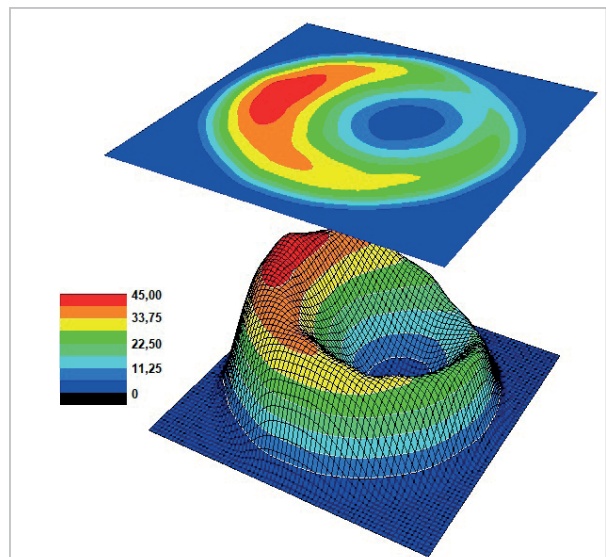
CUSTOM BEAM ENERGY PROFILE CREATED FOR THE TREATMENT OF THE COMPLICATED REFRACTION ERRORS:

- Mixed and irregular astigmatism
- Induced astigmatism
- Coma (decentration)
- Higher-order aberrations

Patient individual measurement data from the corneal topographer, autorefractometer or wavefront analyzer turns directly to the laser settings with our PLATOSCAN and KERASCAN software packages.



Mixed and irregular astigmatism ablation profile

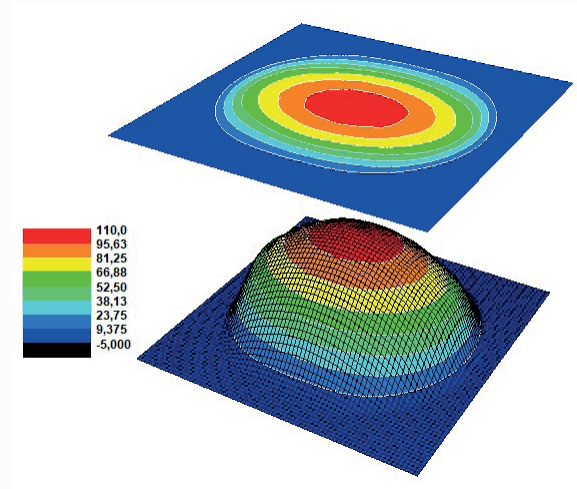


Coma (decentration) ablation profile

ABLATION PROFILE

«REFRACTION»

- Optimized ablation mode from 12.5 μm per D
- Q-factor correction
- Multifocal refraction with wide peripheral zone for low accommodation compensation



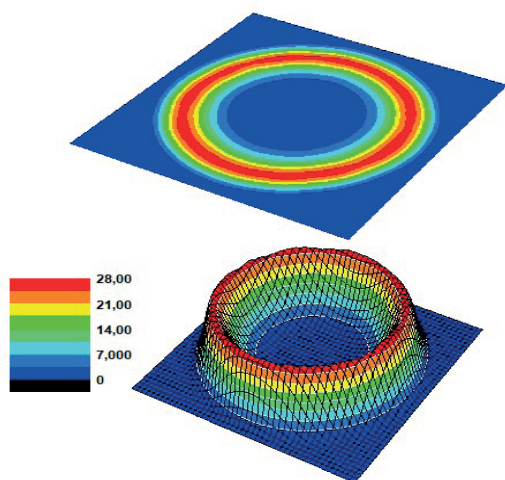
Myopia with astigmatism ablation profile

ABLATION PROFILE

«PRESBYOPIA»

Ablation profile for conventional 2-zone treatment:

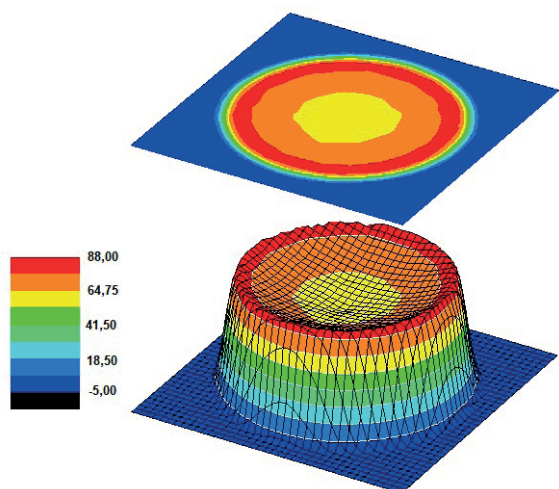
- Central zone optimized for vision at distance
- Side zone for close view



ABLATION PROFILE

«ADVANCED PTK»

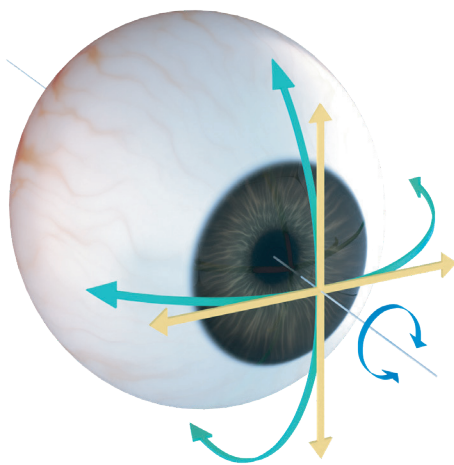
- Initial stage of TransPRK
- Treatment of cornea surface disorders



EYE TRACKING

OWN DESIGN AND PRODUCTION

PROPRIETARY ULTRASTABLE DESIGN OF THE OPTICAL SYSTEM AND CONTINUOUS MONITORING OF EYE POSITION ASSURE PRECISION OF THE TREATMENT



- Pupil or limbal ring may be tracked optionally
- Horizontal and vertical shifts are detected and compensated
- Horizontal and vertical rollings are detected and compensated
- Cyclotorsion is detected and compensated
- Unique optical layout assures an unprecedented - ed focusing spatial stability with no need for any Z-axis shift compensation
- Continuous pachymetry on every treatment stage for the cornea thickness control

AIMING

- Automatic beam centration by:
 - Pupil center
 - Limbal ring center
- Automatic compensation for the Kappa angle
- Automatic compensation for the light-in - duced pupil size change and pupil center shift



EXCELLENT ABLATION QYALITY

MICROSCAN VISUM VS ANY OTHER

UNIQUE SUPER GAUSS BEAM ENERGY PROFILE



ROUGHNESS

less by 2.2 (~190 nm)



ENERGY DENSITY

less by 3.5



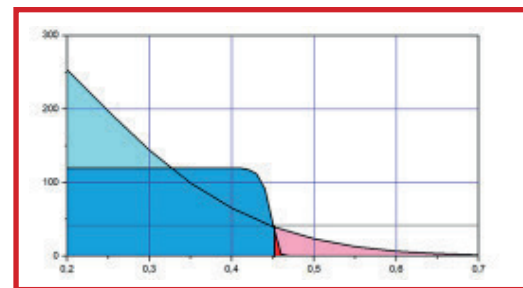
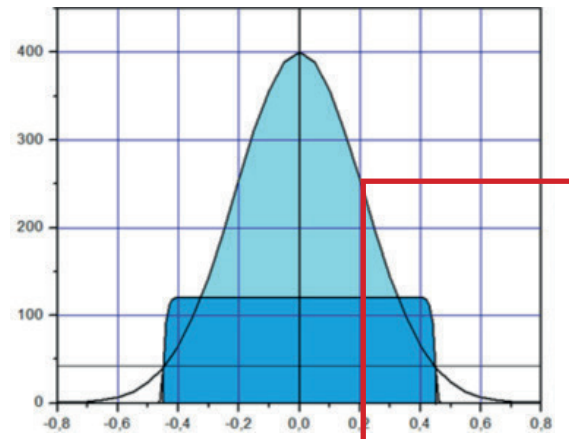
CORNEA HEATING

less by 2.5



HEALING

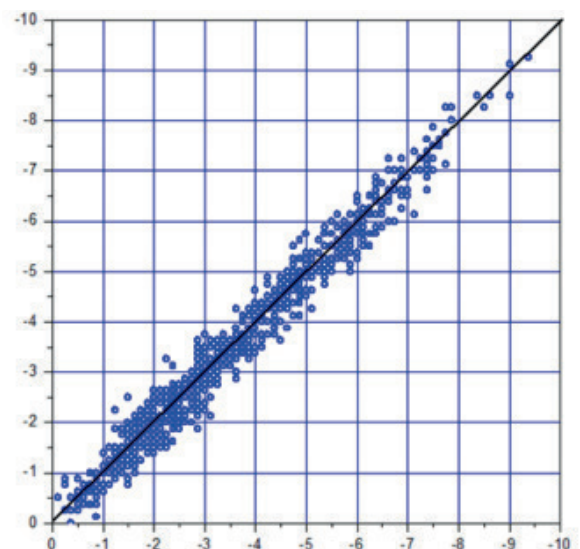
fast recovery after PRK



Energy below ablation threshold (red) turns to heat. Super Gauss (dark blue) dramatically surpasses Gauss (light blue) in efficiency.

PREDICTABLE TREATMENT OUTCOME WITHOUT NOMOGRAM ADJUSTMENT

Spherical equivalent attempted
vs. achieved (1000 procedures)



EXCIMER LASER CLS 5000

OWN DESIGN AND PRODUCTION



Fastest on the market - 1100 Hz



Long gas premix lifetime



RELIABILITY, SAFETY,
EFFICIENCY



FAST SERVICE
WORLDWIDE



LOW MAINTENANCE
COST

THE VISUM PLATFORM

MICROSCAN VISUM + FEMTO VISUM



**COMPACT FOOTPRINT,
ROTATING PATIENT
TABLE**



**ONLINE PATIENT DATA
EXCHANGE BETWEEN
SYSTEMS**



**LIVE OPERATION
WINDOW STREAM
FROM ONE SYSTEM TO
ANOTHER**

- 1036 Pearl Gold
- 5011 Steel Blue
- 6005 Moss Green
- 7016 Anthracite Grey
- 3003 Ruby Red
- 9017 Traffic Black

MICROSCAN VISUM AT A GLANCE

APPLICATIONS

- Topo-guided and wavefront-guided (WFG) treatments, wavefront-optimized (WFO) treatments
- FemtoLASIK, LASIK, LASEK
- PRK, topoPRK, transPRK
- Presbyopia
- PTK

INDICATIONS RANGE	Myopia up to 13 D, hyperopia up to 7 D, astigmatism up to 10 D
TRACKING	By pupil, limbal ring or scleral vessels
AIMING	By pupil, limbal ring
ABLATION DEPTH	From 12.5 um per D
ROUGHNESS	190 nm
TREATMENT TIME	From 1.19 sec per D
LASER REPETITION RATE	1100 Hz or 500 Hz
LASER WAVELENGTH	193 nm
LASER BEAM DIAMETER	0.9 mm
LASER BEAM PROFILE	Super Gauss
ACCESS CARD	Not required
SUPPORTED DIAGNOSTIC INSTRUMENTS	Topcon KR-1W, Visionix VX 120, Tomey TMS-5
COLD START TIME	30 min
FOOTPRINT	72 x 135 cm (28 x 53 in)

Worldwide Representation Platform

