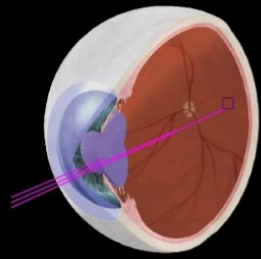


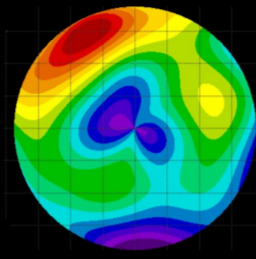


RAY TRACING



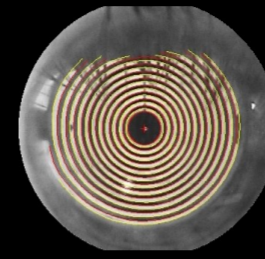
- 256 laser beams in < ¼ sec
- Analyzes vision naturally, forward through eye
- Tracey patented technology

WAVEFRONT



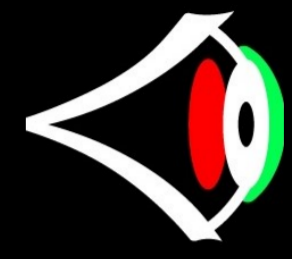
- Precise autorefracton
- RMS Zernike coefficients
- HOA - High Order Aberrations
- PSF - Point Spread Function

TOPOGRAPHY



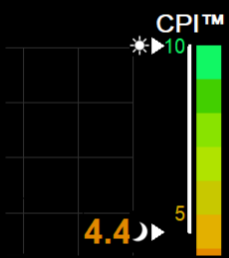
- Placido disc technology
- Corneal curvature
- Air-to-tearfilm surface
- Keratometry

EXAM RESULTS



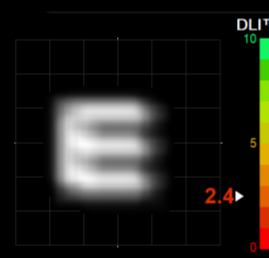
- 3-color coding Tech Triage
- Decision support for staff
- Dry Eye testing indicator
- Discerns source of problems

CPI™



- Corneal Performance Index
- Shows corneal vision quality
- @ 2.5 and 4.5mm pupil size
- Simulates day / night vision

DLI™



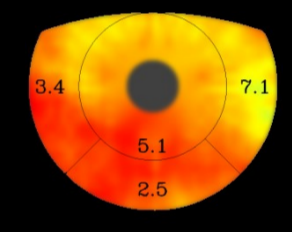
- Dysfunctional Lens Index
- Scores internal optics 0 to 10
- DLI below 5 = cataract
- Simulates lens visual quality

QVI™



- Total Quality of Vision Index
- Scores total vision 0 to 10
- Simulates vision with/without sphere/cyl correction

TFI™



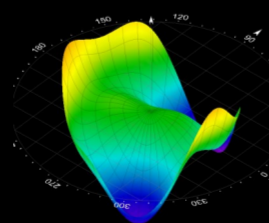
- Tear Film Index
- Quantifies TF quality/stability
- Localized heat map of TFI
- Topo breakup time

LOA



- Lower Order Aberrations
- Wavefront deviation - sph/cyl
- Displayed in 1/8 or 1/100 dpt
- Available in 4 zones

HOA



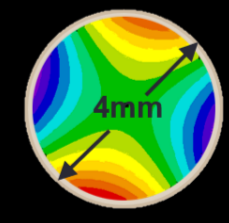
- 3rd to 6th Zernike polynomials
- Cornea, lens and total eye
- Displayed in RMS or WF map
- Coma/Trefoil/Sph. Aberration

ANGLE ALPHA



- Distance visual to optical axis
- Predicts alignment of IOL
- MIOL <500µ, EDOF <700µ
- TIOL @ astigmatism axis

4mm WFK

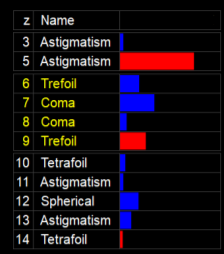


- Wavefront keratometry
- Calculates steep and flat axis with Zernike data
- Only available in the iTrace



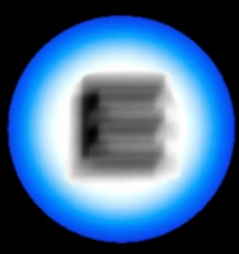


CHANG ANALYSIS



- HOAs as RMS bar graphs
- Color coded for high levels
- Cornea, internal & total eye
- Clinically relevant >0.3μ

COMA



- Causes monocular diplopia
- Oblique incident light beams
- Comet-like scattered figure
- Tilted or decentered IOL

SA



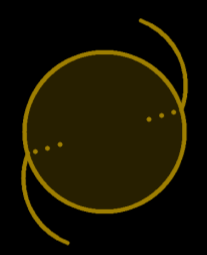
- Spherical aberration
- Causes glare and halo
- May affect depth of field
- Night myopia @ large pupil

TREFOIL



- 3-axis astigmatism
- Causes starburst in large pupil
- Decentered or small rhexis

TORIC PLANNER



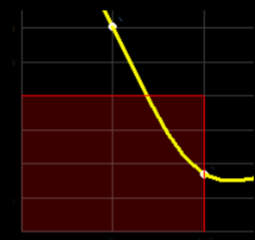
- Uses wavefront keratometry
- Caculates toric power of IOL
- Optimises incision location
- Target your post-op cylinder

TORIC CHECK



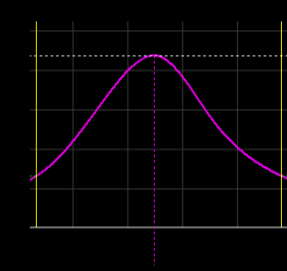
- Shows axis of TIOL power
- Shows needed TIOL rotation
- Dilatation of pupil not needed
- Confirms tilted IOL

MTF



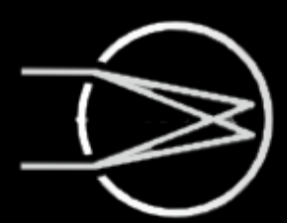
- Modulation transfer function
- Plots sharpness vs contrast
- Contrast loss & visual acuity
- Influence on MIOIOL & EDOF

DOF



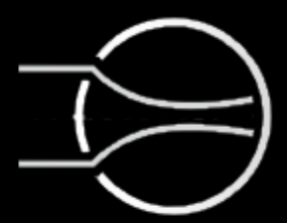
- Depth of focus comparison
- Correlates to defocus curve
- Monovision & blended vision
- Optimises mono+ and LAL

TIOL



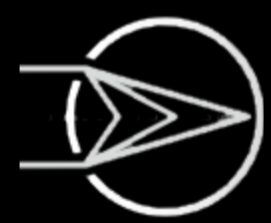
- Astigmatism education
- Toric Planner
- Toric Check
- Angle Alpha @ astig axis

EDOF



- CPI and TFI
- Chang Analysis - cornea
- Angle Alpha & Toric Planner
- MTF cornea

MULTIFOCAL



- CPI and TFI
- Chang Analysis - cornea
- Angle Alpha & Toric Planner
- MTF cornea

MONO+



- CPI and TFI
- Chang Analysis - cornea
- SA@6mm and pupil size
- DOF curve

We believe that every cataract and refractive surgeon deserves the very best information about patient visual function from which to make informed and clinically sound decisions, which will result in improved outcomes for patients. Better outcomes will decrease post-op problems that consume energy and chair-time, and better outcomes will increase referrals to the practice, all leading to satisfied patients. [See the iTrace for yourself and scedule a demo today.](#)