

elita

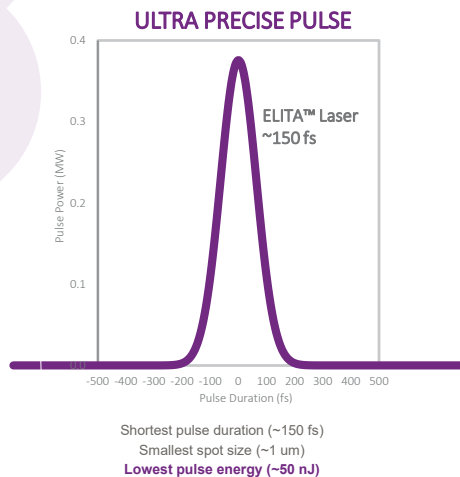
Femtosecond Laser



Introducing ELITA™,
next-generation
corneal refractive
technology

Johnson&Johnson
Amico Yasna Pars (Pr.J.S.Co)

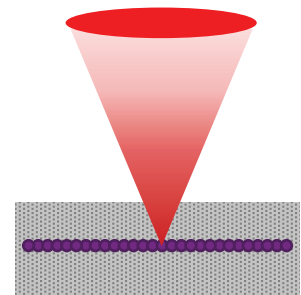
Blend of advanced technologies delivering exceptional precision and accuracy in corneal tissue separation



- Shortest pulse duration of ~150 fs
- Smallest laser spot size ~1 μm
- High numerical aperture of 0.6 provides a diffraction-limited 1.0 FWHM focus spot size

CONTINUOUS SURFACE SCANNING

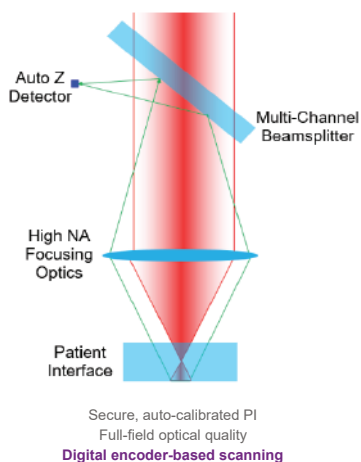
Mean Spot Spacing ~1 μm



Ultrafast delivery (10 MHz)
Contiguous spot placement
Smooth continuous dissection

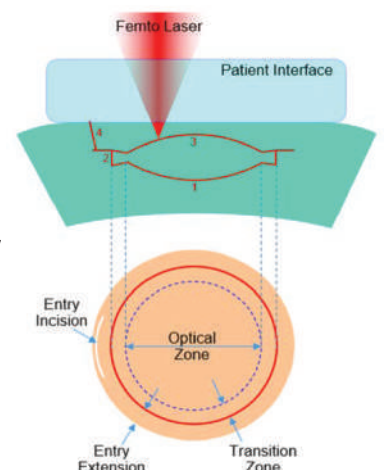
- Ultrafast delivery system enables contiguous cutting surface (10 MHz laser repetition rate and 8,000 Hz resonant scanner)
- Proprietary radial scan pattern for smooth lenticule surface curvature and fast laser treatment time

SUB-MICRON PRECISION



- Patient Interface scan accommodates for glass thickness, any tilt or orientation
- Precise laser pulse placement and depth
- Uniform optical performance across entire treatment area

- Symmetrical anterior and posterior lenticule surface
- Less corneal folds in Bowman's layer
- Transition zone ensures optical zone not compromised by lenticule edge
- More residual anterior cornea in the periphery



INTRODUCING

SILK

(SMOOTH INCISION LENTICULAR KERATOMILEUSIS)

THE NEXT GENERATION LENTICULAR PROCEDURE FROM J&J VISION



Exceptionally
precise &
accurate
technology



Consistently
smooth
lenticule
removal



Exquisite visual
outcomes and
patient
satisfaction

- Indication: Myopia with/without astigmatism up to -12 DS, up to -6 DC, with sum of sphere and cylinder between -1.00 D and -12.00 D using minus cylinder convention
- Biconvex lenticule shape designed to preserve corneal integrity and improve nerve regeneration
- Post-docking centration and cyclotorsion adjust

PATIENTS ARE EXCITED WITH THEIR VISION AFTER SILK™
(3 MONTHS POST-OP)

100%

Satisfied with the results of their SILK™ procedure

98%

Satisfied with how quickly their vision improved after SILK™

96%

Would recommend SILK™ to a friend or family member

ELEGANTLY OPERATE WITH CUTTING EDGE TECHNOLOGY

Better quality of vision, due to industry-first biconvex lenticule shape producing less corneal folds in Bowman's Layer and leading to improved nerve regeneration

Easy and smooth lenticule removal: **91% of eyes required little to no dissection**



System Specifications

System Parameters	Specifications ^a
Laser type	Mode-locked, diode-pumped ytterbium (Yb) fiber oscillator with a diode-pumped regenerative Yb fiber amplifier
CDRH ^b laser class (21 CFR 1040)	Class 4 ^c
Spot size	$\leq 1.3 \mu\text{m}$ Full Width at Half Maximum (FWHM)
Scan pattern and spot separation	Fast raster with 0.1–2 μm spot separations
Beam divergence	1.25 steradians (sr) (± 0.20 sr)
Pulse repetition rate	10 MHz (± 0.6 MHz)
Laser pulse duration	100–250 femtoseconds (fs)
Maximum laser pulse peak power	2.0 MW
Central laser wavelength	1040 nm $\pm$ 25 nm
System footprint	175 cm W x 70 cm L x 160 cm H
Beam Delivery Device height	Min 32.5 in (floor to objective lens) Max 41.0 in (floor to objective lens)
Maximum pulse energy	200 nJ (2.0 W)
Maximum laser beam output	2.0 W max
Input voltage/line condition	90–264 VAC/47–63Hz
Maximum current	10 A peak
Patient Interface	2-piece design with flat applanation
System weight	265 kg
AC power cord length	3.0 m
Remote interlock	Yes

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