mensa binasukses pt
distributor and importer of pharmaceutical, consumer and hospital products

No : 013/MBS-SBY/PNWR-MDD/EXT/I-2021
Hal : Penawaran Harga

Surabaya, 18 Januari 2021

Kepada Yth.
Dr. Sahata P.H.Napitupulu, SpM
MATA UNDAAN, RS. (FARMA)
JL.UNDAAN KULON 19, SURABAYA

Dengan hormat,
Bersama ini kami selaku distributor utama alat-alat kesehatan merk Alcon memberikan penawaran sebagai berikut :

Perhitungan Trade In Infiniti ke Centurion		
Nama mesin	CENTURION VISION SYSTEM ACT SENTRY (P20CENAS)	
Deskripsi	HNA	+ PPN
Harga mesin	2,430,000,000	2,673,000,000
Discount	780,000,000	
Trade-in Infiniti	175,000,000	
Total Debt	1,475,000,000	1,622,500,000

Sistem Pembayaran :

DP 30%	PO Terbit
Pembayaran Ke-2 (30%)	Mesin di Instal
Pembayaran ke-3 (40%)	satu bulan setelah

Demikian penawaran harga dari kami.
Atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Hormat kami,
PT. Mensa Binasukses

mbs mensa binasukses pt

Sublat Purnomo
Kepala Cabang

cc. ROM

Centurion®
Vision System With ACTIVE SENTRY™ Handpiece

Unprecedented safety, consistency and control

Tender Supplement

Alcon
SEE BRILLIANTLY

ID-ASP-2000002

Centurion®
Vision System With ACTIVE SENTRY™ Handpiece

Advancing
CATARACT SURGERY

The sensor-equipped handpiece initiates immediate adjustments for a **more consistent procedure**

The CENTURION® Vision System with ACTIVE SENTRY® Handpiece is the latest addition to The Cataract Refractive Suite by Alcon. It redefines phacoemulsification performance with an innovative design that empowers real-time surge reduction for **a new standard in safety, consistency and control.**

Safety, Consistency and Control

- **Unprecedented responsiveness[1,2]:** The first and only phaco handpiece equipped with a sensor that enables the system to respond to pressure changes immediately
- **Superior surge reduction[3]:** The handpiece communicates with hardware and software for more consistent procedures and improved patient safety[3]
- **Stability from start to finish[3]:** Active Fluidics™ Technology works to maintain target intraocular pressure (IOP), regardless of patient eye level (PEL), for more confidence throughout the procedure[3]

The CENTURION® Vision System with ACTIVE SENTRY® Handpiece is also supported by advanced procedural technologies designed to add even more efficiency to the phaco experience.

EFFICIENCY

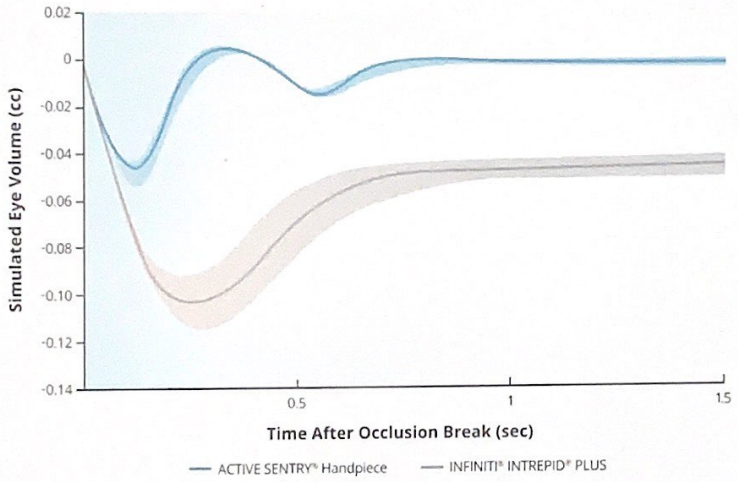
Enhanced phacoemulsification[4-6]: The entire phaco system helps surgeons conduct an exceptionally efficient procedure that is easier on patients' eyes[4-7]

The first and only handpiece to feature a built-in fluidics pressure sensor.

Safeguard every outcome with the most responsive phaco handpiece yet

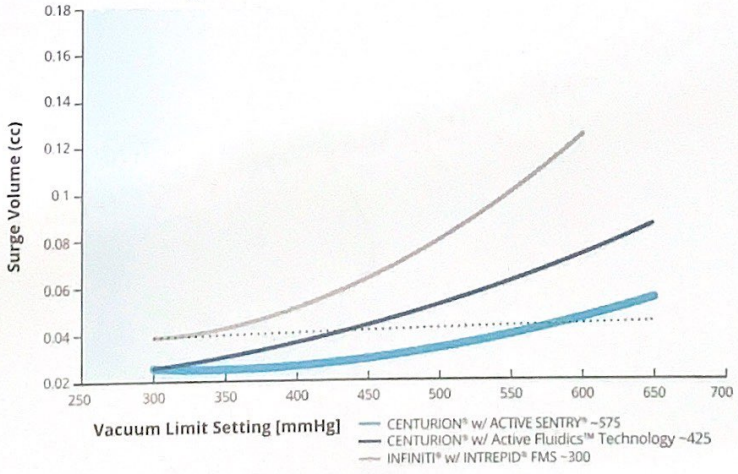
Only the ACTIVE SENTRY® Handpiece detects pressure and communicates with the CENTURION® Vision System Fluidics Management System (FMS) for the **fastest surge response time** and more consistent volume and IOP.[1,3]

Simulated Eye Volume After Occlusion Break[2]
(IOP 50 mmHg; Vac Setting 500 mmHg; Asp Rate 40 cc/min)



As fluid fluctuation in the eye occurs, the handpiece works with QuickValve™ technology and Active Fluidics™ Technology to trigger immediate adjustments designed to stabilize fluid volume in the anterior chamber for **superior occlusion break surge reduction** and **consistency throughout the procedure.**[1,3]

Technical Overview, Surge Mitigation:
ACTIVE SENTRY® Handpiece
Surge Volume, IOP Setpoint = 55 mmHg[8]

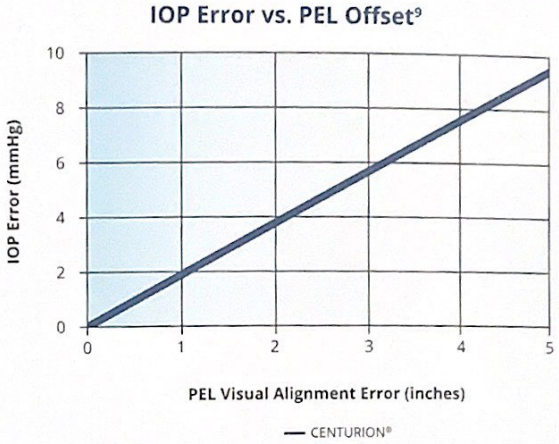


Mitigating risk to provide **a new standard of safety for patients**

The innovative, sensor-equipped ACTIVE SENTRY® Handpiece **addresses variables as they arise**, reducing the potential impact of issues that could endanger patient outcomes.

Automated patient eye level (PEL) detection

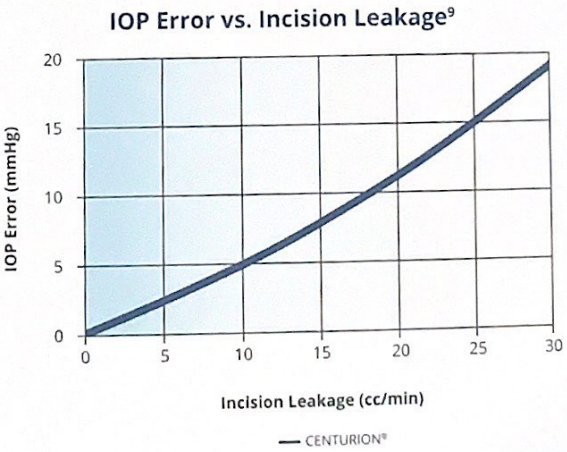
- Sensor **automatically recognizes PEL** in every case
- Helps maintain **consistent targeted IOP** across cases



The ACTIVE SENTRY® Handpiece works with QuickValve™ technology inside the FMS. In combination with Active Fluidics™ Technology, they immediately adjust IOP to provide **superior occlusion break surge reduction and consistency throughout the procedure.**[1,3]

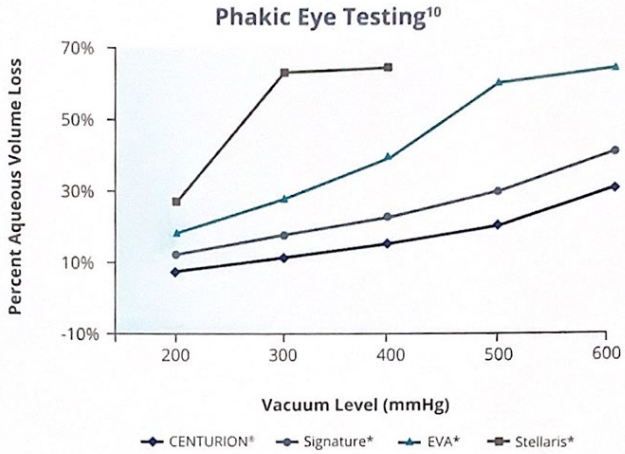
Compensates for average incision leakage

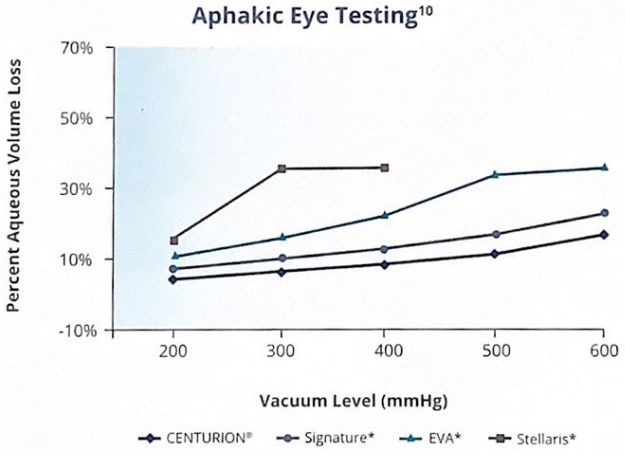
- Adjusts for incision leakage that can cause variance in IOP
- Sensor automatically detects difference in aspiration and irrigation rates
- Increases fluid flow into the eye for consistent pressure



Consistently preserving more volume for **less surge and greater safety**[3]

The CENTURION® Vision System with ACTIVE SENTRY® Handpiece preserves more fluid volume in the anterior chamber of the eye for **safe, controlled phaco performance.**[3]





Whether the eye was phakic (lens intact) or aphakic (lens removed), the CENTURION® Vision System **demonstrated the lowest surge** response across all vacuum levels.[10]

Phaco System	Vacuum Limit (mmHg)	Surge Volume (µl)	Percent Volume Loss in Phakic Eye	Percent Volume Loss in Aphakic Eye
CENTURION® Vision System	**200-600**	**17-77**	**7%-31%**	**4%-17%**
AMO Signature*	200-600	30-103	12%-41%	7%-22%
DORC EVA*	200-600	47-165	19%-66%	10%-36%
B&L Stellaris* PC	200-400	67-163	27%-65%	15%-35%

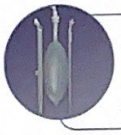
*Trademarks are the property of their respective owners.

Innovative FMS for **the most advanced phaco system**

Each phaco system is designed to maintain IOP, but as FMS technology evolves, so do the benefits of **safety, consistency and control.**

Gravity fluidics
Uses bottle height to regulate IOP

Hyper-pressurized fluidics
Uses air pump to achieve high irrigation pressure in bottle



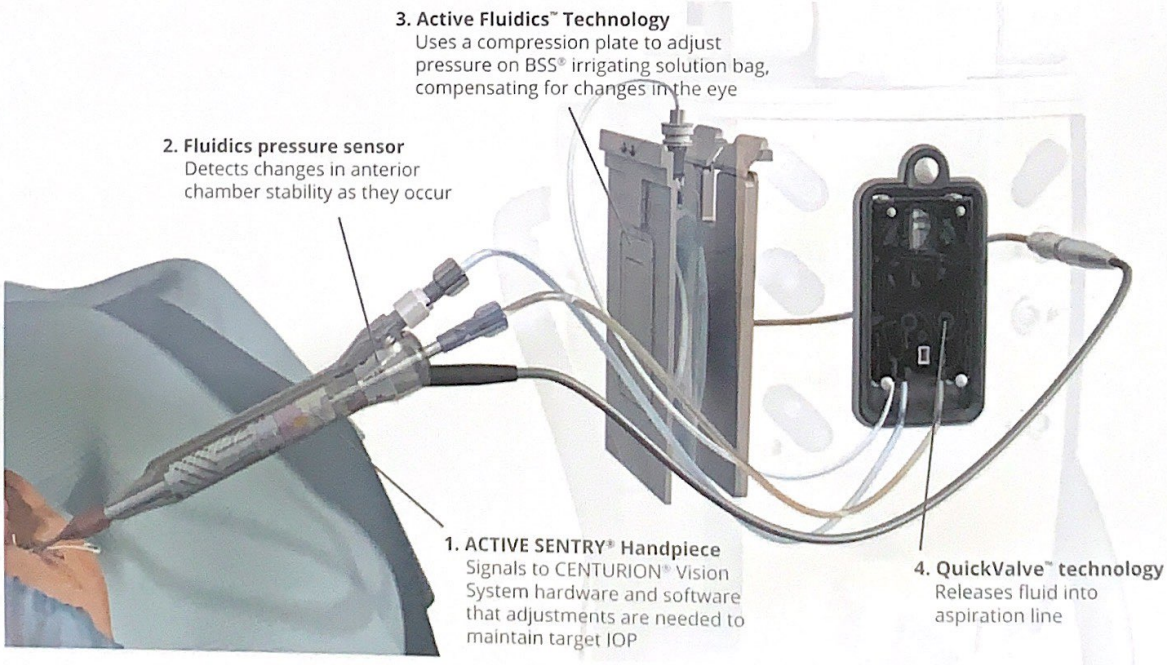
Active Fluidics™ Technology
Uses compression plates to maintain surgeon-selected target IOP

Active Fluidics™ Technology with ACTIVE SENTRY® Handpiece
Combines Active Fluidics™ Technology with irrigation pressure sensor in handpiece

Superior surge reduction and more consistent procedures[1,3]

The CENTURION® Vision System with ACTIVE SENTRY® Handpiece is designed for **quick recovery of the eye chamber** during phaco.

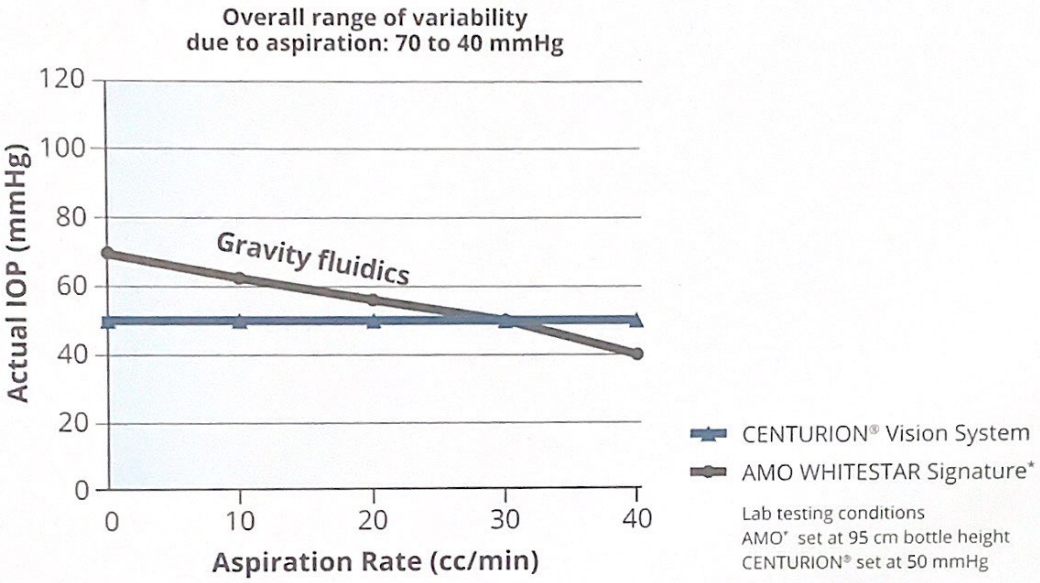
- Pressure sensor communicates with the fluidics system
- QuickValve™ technology opens to pull fluid from an internal reservoir in the FMS



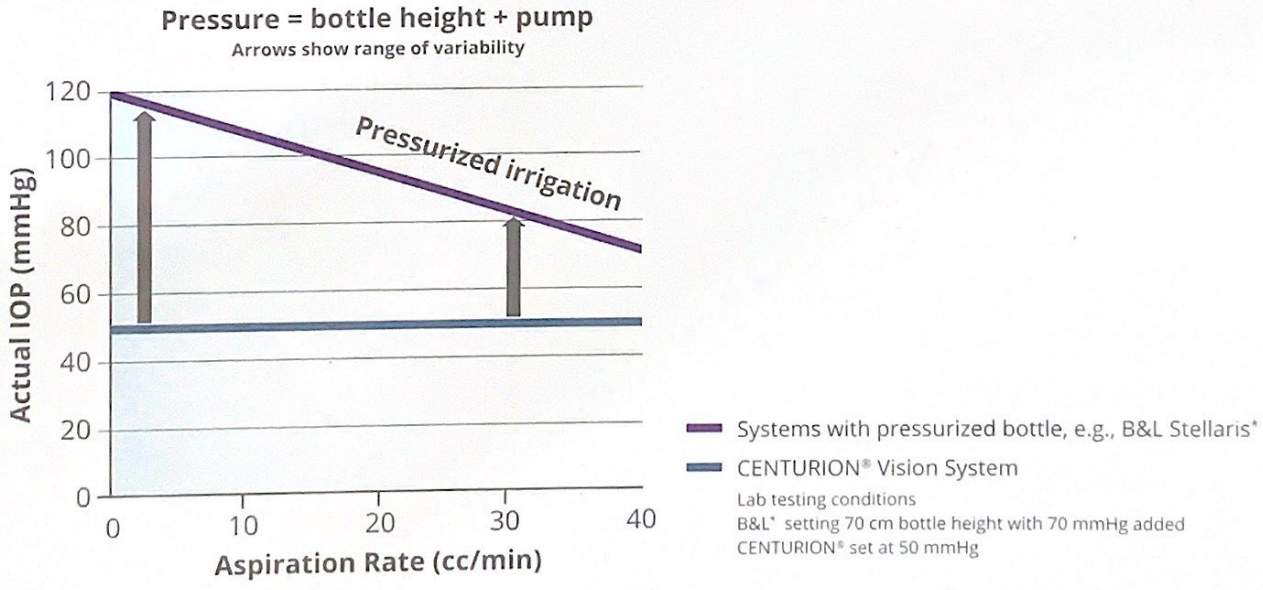
Maintaining stability for **control throughout every procedure**

Patients, conditions and pathology vary case by case, so Active Fluidics™ Technology **detects and compensates for changes** to help maintain surgeon-selected IOP and safeguard outcomes. With the addition of the pressure sensor in the ACTIVE SENTRY® Handpiece, variations can be identified and corrected in real time. This way, there is **less IOP fluctuation versus gravity and hyper-pressurized fluidics.**[3,11]

IOP as Aspiration Rate Rises[3]
Gravity vs. Active Fluidics™



IOP vs. Aspiration Flow Rate[3,11] Pressurized Bottle Compared with Active Fluidics™



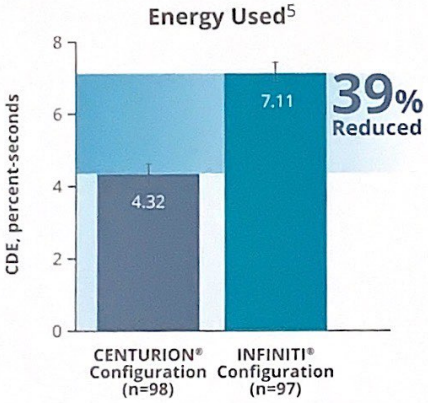
Exceptional efficiency to **reduce time, energy and risk**[4,5,7]

Along with the advancements the ACTIVE SENTRY® Handpiece brings to the CENTURION® Vision System, the system retains the efficiency benefits of CENTURION® Energy Delivery.

The unique combination of innovative fluidics, the BALANCED Tip and OZil® technology **streamlines phaco procedures** while making them easier on — and safer for — patients' eyes.[4-7]

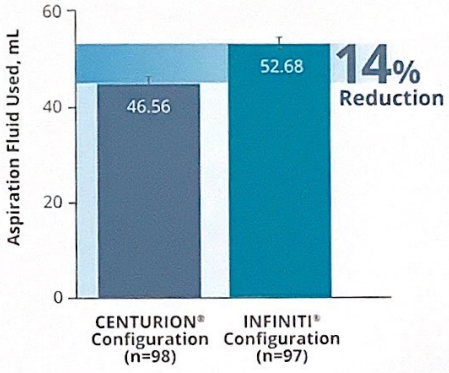
- Accelerated cataract removal*[,4,5]
- Reduced energy output[4]
- Enhanced torsional efficiency[4-6]
- Reduced repulsion[12]
- Less fluid use[4,5]

Cumulative Dissipated Energy



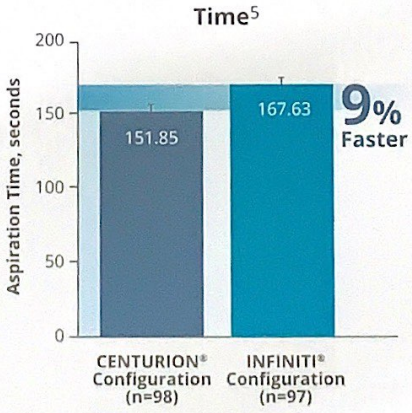
Group difference (95% confidence interval): -2.79 (-3.44 to -2.13) percent-seconds; data reflect least squares mean ± standard error.

Aspiration Fluid Used



Group difference (95% confidence interval): -6.12 (-9.82 to -2.43) mL; data reflect least squares mean ± standard error.

Aspiration Time

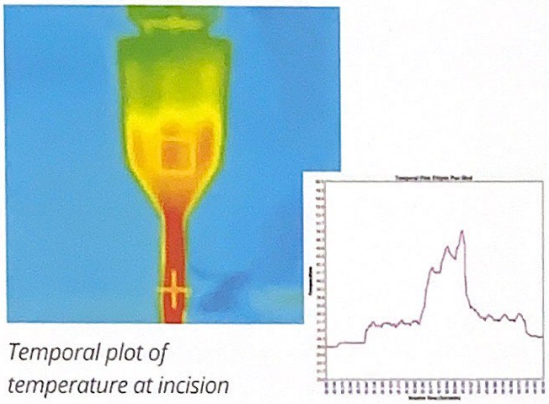


Group difference (95% confidence interval): -15.78 (-26.49 to -5.07) seconds; data reflect least squares mean ± standard error.

As compared to the INFINITI® Vision System, bottle gravity system.
CENTURION® Configuration: CENTURION® Vision System, 45° BALANCED Tip with INTREPID® Ultra Sleeve
INFINITI® Configuration: INFINITI® Vision System, 45° Mini Flared Kelman with Ultra Sleeve

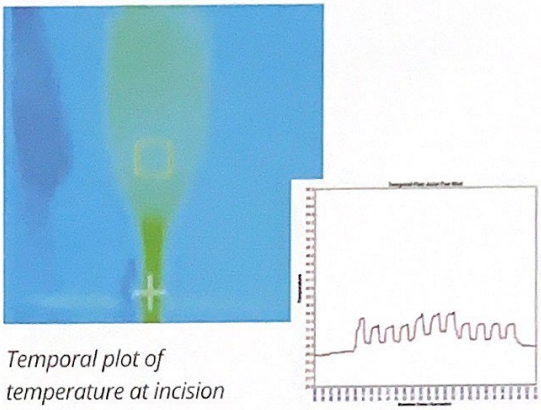
Energy delivery designed to **protect the cornea and anterior chamber**[4]

Ellips* FX IR Temperature Recording[7]



Temporal plot of temperature at incision

OZil® Torsional IR Temperature Recording[7]

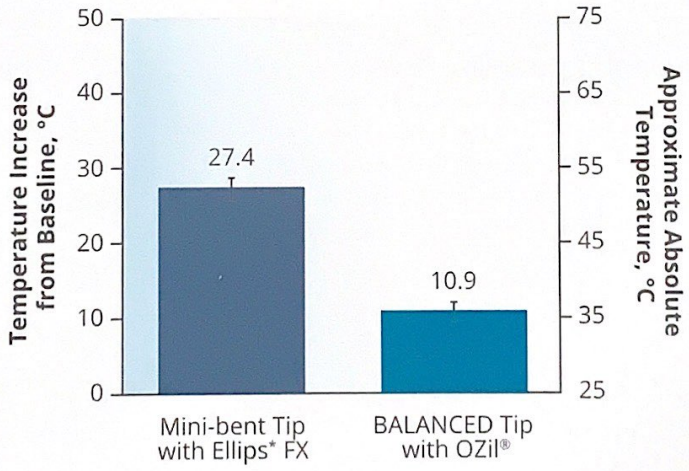


Temporal plot of temperature at incision

Versus traditional and Ellips* FX ultrasound modalities, OZil® phaco and the BALANCED Tip deliver[7]:

- **60% less** temperature rise[7]
- **Safer** heat transfer[7]

Temperature Rise Under Occlusion & Load[7]



Lab testing conditions
Occluded — Load
50% Amplitude

Sophisticated performance with versatile technology

The INTREPID® BALANCED Tip, INTREPID® Transformer I/A Handpiece and INTREPID® AutoSert® Handpiece round out the phaco experience to help provide **safety and efficiency at every step.**

Efficiency at the surgeon's fingertips

INTREPID® BALANCED Tip offers:

- More lateral movement at tip, less shaft movement at incision site[4]
- Minimal heat production[4]
- Minimized corneal stromal changes and complications[4]
- Alternative "straight" tip for torsional phaco

Adaptability for a variety of cases

INTREPID® Transformer I/A Handpiece allows for:

- Coaxial or bimanual cortical removal
- All-in-one handpiece facilitates easy transitions

More control throughout the procedure

INTREPID® AutoSert® Handpiece delivers:

- Less force to the eye[13,14]
- Better wound integrity[13,14]
- Less incisional stretching[13,14]
- Minimal wound disruption and trauma[13,14]

Enhanced usability across the system

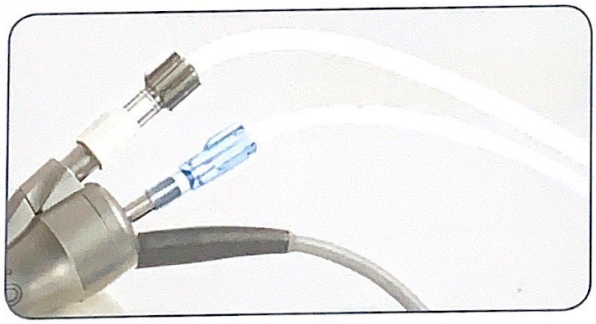
With current updates, the CENTURION® Vision System with ACTIVE SENTRY® Handpiece does even more to ensure a **seamless, consistent experience** throughout the procedure.

Graphical User Interface

The high-tech interface has been redesigned to effortlessly incorporate the upgraded software and feature set, providing a **clean, clear view of information** during the procedure.

More Flexible Tubing

Updated FMS tubing provides **increased maneuverability** for an improved experience throughout the procedure.



Wireless Footpedal

The footpedal allows for flexible positioning in the OR and delivers **controlled irrigation flow, aspiration rate and phaco handpiece power.**

CONSOLE

DIMENSIONS
Height: No greater than 165 cm (65 in)
Width: No greater than 58.5 cm (23 in)
Depth: No greater than 76 cm (30 in)

WEIGHT
Unpackaged: No greater than 107 kg (235 lb)
Packaged: No greater than 150 kg (330 lb)

ENVIRONMENTAL LIMITATIONS — OPERATING
Altitude: 3,000 m (9,842 ft)
Temperature: 10°C to 35°C (50°F to 95°F)
Relative Humidity: 10% to 95% without condensation

ENVIRONMENTAL LIMITATIONS — NON-OPERATING
Altitude: 12,191 m (40,000 ft)
Temperature: -40°C to 70°C (-40°F to 158°F)
Relative Humidity: 10% to 95% without condensation

SHOCK, BUMP & DROP
The system conforms to EN ISO 15004-1 requirements for vibration, bump and shock.

CASTER WHEELS
Unpackaged instrument must withstand 2 impacts under conditions:
-3" free fall onto all four casters
-3" tilt drop onto each caster (raise one caster 3" above the floor, then allow device to fall back to normal position)

CONSOLE STABILITY
Meets IEC 60601-1 placed on incline of 10 degrees from horizontal

WATER INGRESS
Meets IPX0 (console), IPX1 (IR remote control), IPX8 (footswitch) as specified in IEC 60601-2-2, clause 201.11.6.5 (footswitch)

IR REMOTE CONTROL
Method: Infrared
Channels: 6
Batteries: (2x) AA

FOOTSWITCH
Dimension: 3" tall x 9" wide x 12" deep
Weight: No greater than 5.4 kg (12 lbs)
Environmental: Footswitch construction is water tight in compliance with IEC 60601-1 and IEC 60601-2-2
Electrical: Footswitch is configured for wireless transfer
Channels: 16

AC ELECTRICAL REQUIREMENTS
Input Voltage—Domestic: 100-240 VAC 50/60 Hz
Maximum Input Current: 10A

PROTECTION AGAINST ELECTRICAL SHOCK: Class I

CLASSIFICATION OF ALL APPLIED PARTS: Type BF

DATA CARD: USB data stick: 8 GB min

PERFORMANCE REQUIREMENTS

PHACOEMULSIFICATION (CENTURION® OZIL® HANDPIECE AND INFINITI® OZIL® HANDPIECE)
Submodes: Continuous, Burst, Pulse
Longitudinal Tip Stroke @ 100%: .0084 ± .0018 cm (.0033 ± .007 in)
Resonant Frequency: 30 kHZ to 60 kHz
Torsional Tip Stroke @ 100%: .0069 ± .0023 cm (.0027 ±.0009 in)
Resonant Frequency: 30 kHZ to 60 kHz
Pulse Rate Range: 1-250 pps
On Time: 0-100%
Burst On Time: 2-500 mS
Burst Off Time: 2500-0 mS

ANTERIOR VITRECTOMY
Submodes: Anterior Vitrectomy, Peripheral Iridotomy, Epi-Vit, Visco-Vit ULTRAVIT® Probe: 1 to 4,000 cpm)

DIATHERMY (COAGULATION)
10 watts max., 75 omh load
76 Vpp @ 1.5 MHz ± 5%, 75 omh load
Waveshape: Sinusoidal

VACUUM @ SEA LEVEL
Phacoemulsification: 0-700 mmHg max
Vitrectomy: 0.700 mmHg max
Irrigation/Aspiration: 0-700 mmHg max

POWER IV POLE
Height Range: 20 to 110 cm

IOP CONTROLLED INFUSION
Range: 26 - 110 mmHg (35 - 150 cmH2O) (35 - 147 hPa)
Accuracy: ± 20% of setpoint or ±15 mmHg (20 hPa)
Aspiration Flow Rate: 0 - 60 cc/min
Usable Fluid Volume: > 350 cc

VOICE CONFIRMATION
Range: 0 to 60 dB

TONE VOLUMES @ 1 METER
Errors/Faults/Invalid Key: 40 to 65 db, short tone
Diathermy: 40 to 65 db, continuous tone
Advisory/Time Expire: 0 to 65 db, short tones
Phaco/Vacuum: 0 to 65 db, continuous tones
Valid Key: Factory set and not adjustable
Volume Accuracy: 6 db

PROPORTIONAL AND CONTINUOUS REFLUX @ SEA LEVEL
Pressure Range: 26 to 140 mmHg
Pressure Accuracy: ±10% of setpoint + 5 mmHg
Total Available Reflux Volume: 7 cc replenishable via aspiration

INTREPID® AUTOSERT® IOL INJECTOR
Max Speed: 4.4 mm/sec

1. Sharif-Kashani P, Fanney D, Injev V. Comparison of occlusion break responses and vacuum rise times of phacoemulsification systems. *BMC Ophthalmol.* 2014;14:96. **2.** Alcon Data on File. **3.** Nicoli CM, Dimalanta R, Miller K. Experimental anterior chamber maintenance in active versus passive phacoemulsification fluidics systems. *J Cataract Refract Surg.* 2016;42(1):157-162. **4.** Khokhar S, Aron N, Sen S, Pillay G, Agarwal E. Effect of balanced phacoemulsification tip on the outcomes of torsional phacoemulsification using an active-fluidics system. *J Cataract Refract Surg.* 2017;43(1):22-28. **5.** Solomon K, Lorente R, Cionni R, Fanney D. Prospective, randomized clinical study using a new phaco system with intraocular system target pressure control. Paper presented at: ASCRS-ASOA Symposium and Congress; April 25-29, 2014; Boston, MA. **6.** Zacharias J. Comparative motion profile characterization of the mini flared and balanced phacoemulsification tips. Paper presented at: ESCRS; September 5-9, 2015; Barcelona, Spain. **7.** Zacharias J. Comparative thermal characterization of phacoemulsification probes operated in elliptical, torsional and longitudinal ultrasound modalities. Paper presented at: ASCRS-ASOA Symposium and Congress; April 25-29, 2014; Boston, MA. **8-9.** Alcon Data on File. **10.** Aravena C, Dyk D, Thorne A, Fanney D, Miller K. Percent aqueous volume loss associated with post occlusion break surge in 4 phacoemulsification systems. Paper presented at: ASCRS-ASOA Symposium and Congress; May 6-10, 2016; New Orleans, LA. **11.** Boukhny M, Sorensen G, Gordon R. A novel phacoemulsification system utilizing feedback based IOP target control. Paper presented at: ASCRS-ASOA Symposium and Congress; April 25-29, 2014; Boston, MA. **12.** Vasavada AR, et al. Comparison of torsional and microburst longitudinal phacoemulsification: a prospective, randomized, masked clinical trial. *Ophthalmic Surg Lasers Imaging.* 2010;41(1):109-114. **13.** Allen D, Habib M, Steel D. Final incision size after implantation of a hydrophobic acrylic aspheric intraocular lens: new motorized injector versus standard manual injector. *J Cataract Refract Surg.* 2012;38(2):249-255. **14.** Johansson C. Comparison of motorized IOL insertion to traditional manual IOL delivery. Paper presented at: ASCRS-ASOA Symposium and Congress; March 25-29, 2011; San Diego, CA.

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Advancing
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