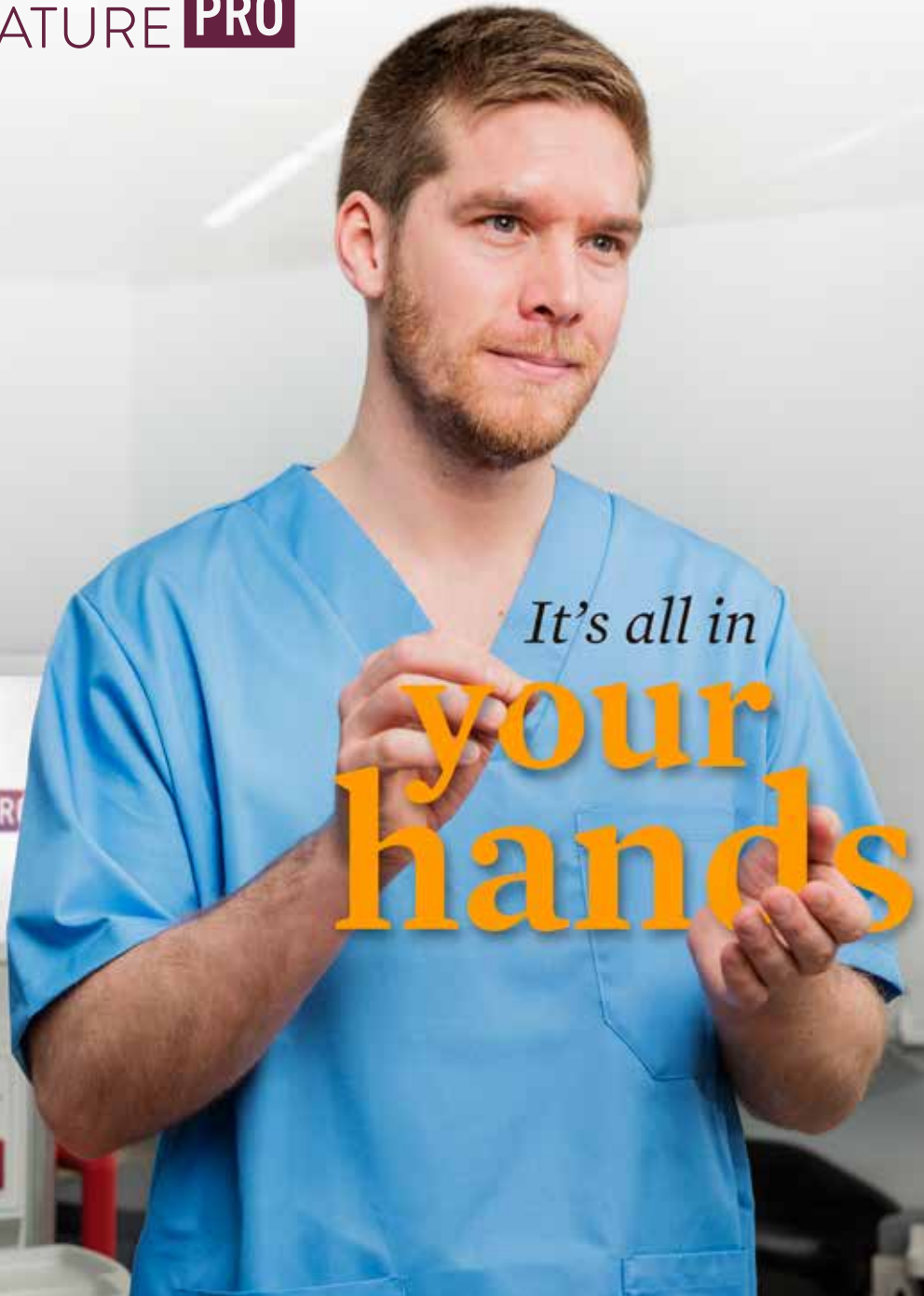


WHITESTAR
SIGNATURE PRO



**LENS EXTRACTION
PHACOEMULSIFICATION SYSTEM**

Johnson & Johnson VISION

WHITESTAR SIGNATURE **PRO**



POWERED BY CHOICE

- Choose the pump that fits your technique
- Work with your preferred phaco tip, curved or bent
- Perform traditional phaco or use after laser softening and segmentation
- Tailor your OR to your unique needs with our wide portfolio of cataract innovations



CASA 

**CASA System data
from your smartphone
and tablet**

Johnson & Johnson Vision does not provide or sell tablets and smartphones devices with the CASA application, phaco systems, LCS platforms or their accessories. Please read the CASA user's guide for a comprehensive instruction of use.



Exceptional versatility

Option of foot pedals, a huge
variety of tips and accessories



Proactive IOP management

Adaptive fluidics technology
that automatically adjusts for
occlusions



State-of-the-art analytics

Intelligent solutions for the total
spectrum of your practice

Excellent chamber stability

The **WHITESTAR SIGNATURE PRO** System is ready-made to proactively respond to adverse pressure changes during surgery. With adaptive occlusion-sensing technology, it's a stable solution no matter which pump you choose.

CHAMBER STABILIZATION ENVIRONMENT (CASE) WITH WHITESTAR TECHNOLOGY

- Optimizes power settings for enhanced control and improved efficiency¹
- Uses little ultrasound, enabling true low-energy lens extraction and reducing the risk of thermal damage¹
- Adjusts to any combination of cataract density, surgical technique or personal preferences



OPTIMIZED FOR EXCELLENT CHAMBER STABILITY

- All you have to do is operate normally



OPTIMAL OUTCOMES AFTERWARD WITH *ELLIPS*[®] FX HANDPIECE

- Less corneal edema²
- Lower endothelial cell loss²
- Reduced risk of thermal damage¹



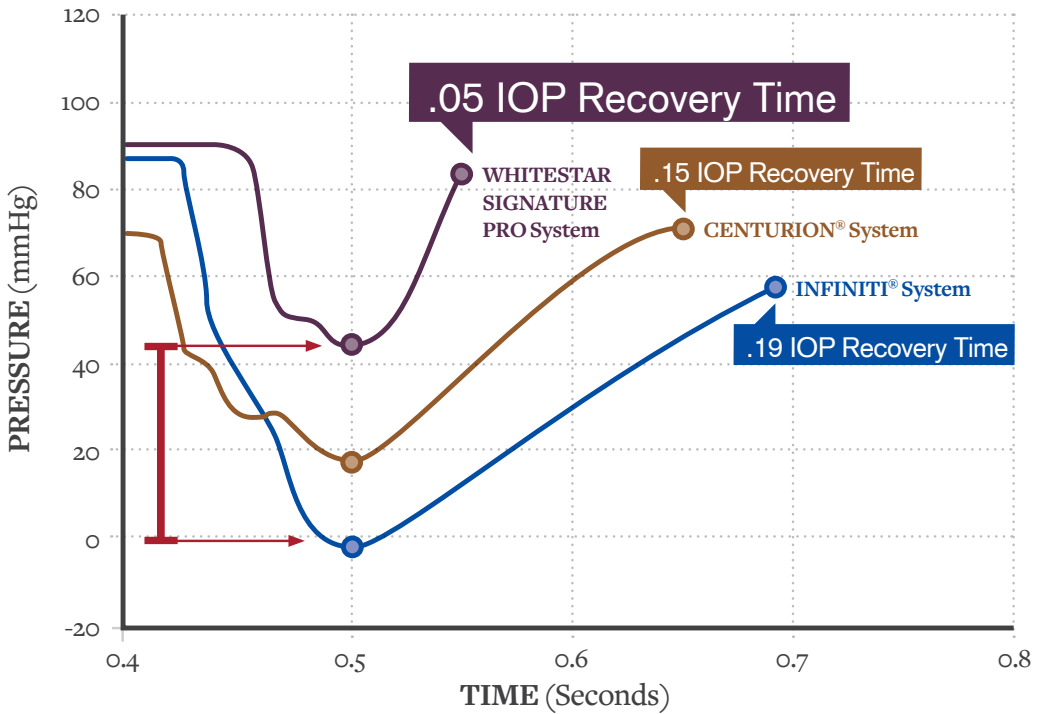
EFFICIENCY IN THE PROCEDURE WITH *ELLIPS*[®] FX HANDPIECE

- A solution for efficient lens extraction²
- Continuous, elliptical ultrasound for both power and followability



Exceptional versatility

POST-OCCLUSION SURGE IN PERISTALTIC MODE³



74%

FASTER IOP RECOVERY

than the INFINITI® Vision System

(Change in time from post-occlusion surge trough back to steady state)

51%

LESS CHANGE IN IOP

than the INFINITI® Vision System

(Change in pressure from steady state to post-occlusion surge trough)

WHITESTAR SIGNATURE PRO System: Aspiration 30 ccm, Vacuum 400 mmHg, Pump Ramp 100%, Bottle Height 90 cm, CASE Vacuum 200 mmHg.
CENTURION® System: Active FMS, Aspiration 30 ccm, Vacuum 400 mmHg, IOP Target 65 mmHg.
INFINITI® System: INTREPID® Plus Fluidics Management System, Aspiration 30 ccm, Vacuum 400 mmHg, Bottle Height 90 cm.

WHITESTAR SIGNATURE **PRO**

ELLIPS[®] FX ULTRASOUND



EMPOWERED EFFICIENCY

- Uses a continuous, elliptical pattern for smooth, efficient cutting
- Reduces phaco time, enabling efficient lens removal²
- Minimal ultrasound time to reduce risk of thermal damage^{1,2}
- High performance with minimal clogging²
- Less corneal edema²
- Lower endothelial cell loss²

The *ELLIPS[®] FX Handpiece* combines the benefits of transversal and longitudinal movement for easy and effective lens emulsification.



CONCENTRATES HEAT AT THE HUB,
keeping it away from the incision.⁴

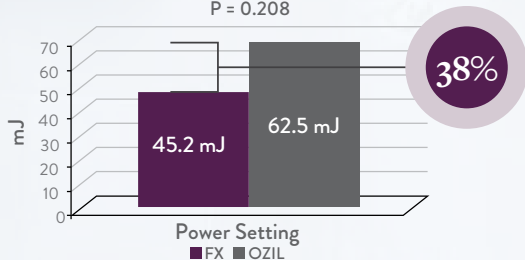


Ultrasound efficiency

ELLIPS® FX TECHNOLOGY DELIVERS GREATER EFFICIENCY THAN THE OZIL® HANDPIECE

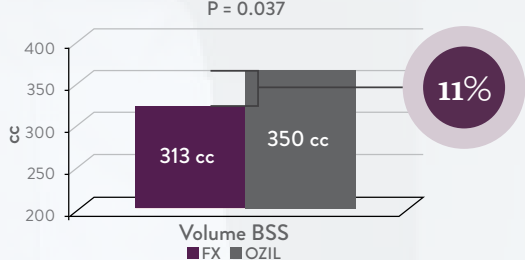
LOWER POWER SETTING²

Phaco Power Setting
P = 0.208



LESS BSS VOLUME²

BSS Volume Used
P = 0.037



The effective phaco time for ELLIPS® FX Handpiece was 31.97 seconds shorter than with INFINITI® System OZil® Handpiece, and was statistically significant (P = 0.0019).

■ ELLIPS® FX Handpiece
■ INFINITI® System OZil® Handpiece

Every surgeon is **diff**

Phaco Your Way.

Ready-made to proactively respond to adverse pressure changes during surgery, the **WHITESTAR SIGNATURE PRO** System is a stable solution whether you use venturi, peristaltic or a bit of both.

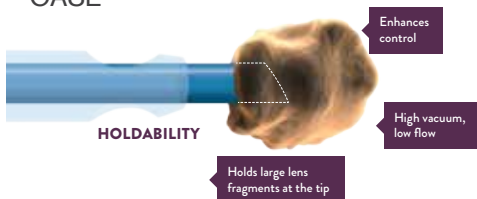


Proactive IOP Management

On-demand fluidics **HAVE IT BOTH WAYS.**

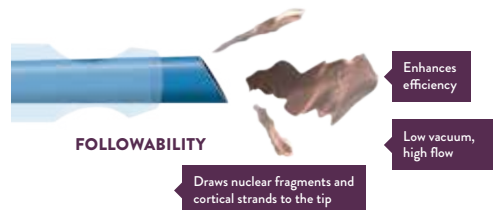
PERISTALTIC FOR INTRAOPERATIVE CONTROL

- Fine fluidics control during sculpting
- High vacuum levels for nucleus segmentation
- Holds large fragments at the tip, allowing surgeons to effectively pull first quadrant centrally
- Helps reduce post-occlusion surge with CASE



VENTURI FOR EFFICIENT EXTRACTION⁵

- Improved followability draws nuclear fragments and cortical strands to the tip⁵
- Enhances phacoemulsification efficiency⁵
- Reduces time of fragment removal⁵



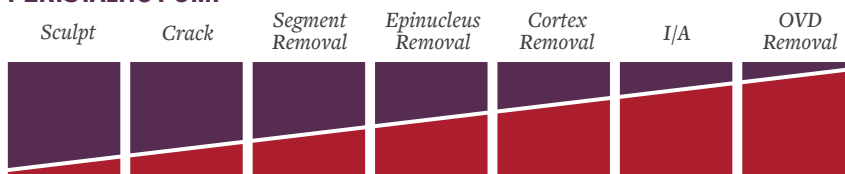
ifferent



SWITCH-ON-THE-FLY FLEXIBILITY

With on-demand fluidics, you can quickly and easily switch between pumps, even within a case. This **switch-on-the-fly transition** allows you to choose the mode that's ideal for each stage, enabling efficient lens removal throughout the procedure.

PERISTALTIC PUMP



VENTURI PUMP

Peristaltic can be optimal for sculpt, crack and segment control while venturi is well suited for I/A.



- Peristaltic for holdability and intraoperative control
- Venturi for followability and efficient lens extraction⁵
- On-demand transition between pumps for efficiency at every step

Set the

pace.

Let Phaco Move You Forward

We're setting the standard in intelligent solutions for the total spectrum of your surgical suite — including the first* mobile analytics tool in phaco.





State-of-the-art analytics



A WHOLE NEW WAY TO LOOK AT YOUR PRACTICE

Designed for surgeons and administrators, the **CATARACT ANALYSIS AND SETTINGS APPLICATION (CASA)** delivers easily accessible surgical performance metrics directly to your iPad device, **empowering you to elevate your surgical suite management using accurate, quantifiable insights** on your procedural outcomes.



ANALYZE TO OPTIMIZE

Empower your surgical suite management with the **CATARACT ANALYSIS AND SETTINGS APPLICATION (CASA)**

- Wirelessly connect to one or multiple systems
- Get a customized, strategic view of your practice
- Access easy-to-interpret performance charts
- Empower surgeons, administrators and everyone in between

With CASA, you can easily access **WHITESTAR SIGNATURE PRO** System data from your smartphone and tablet.



Johnson & Johnson Vision does not provide or sell tablets and smartphones devices with the CASA application, phaco systems, LCS platforms or their accessories. CASA is not currently available for Android devices.

There's nothing better than when things go your way. The **WHITESTAR SIGNATURE PRO** System is engineered for prolific versatility and intuitive usability, so the way it works is the way you do.

TWO CHOICES OF FOOT PEDALS

ADVANCED CONTROL PEDAL

- Easy-grip handle for repositioning and storage
- Adjustable foot stabilizers and heelrest to secure and accommodate most footwear
- Small, compact design for easy storage



ADVANCED LINEAR PEDAL

- Four-button, wireless foot pedal built for ease of use, responsiveness and control
- Ergonomically designed for comfort and reduced operator stress
- Saves preferred settings for multiple-surgeon environments, surgical mode and immediate response



Ready when you are.



CAPTURE YOUR CASES

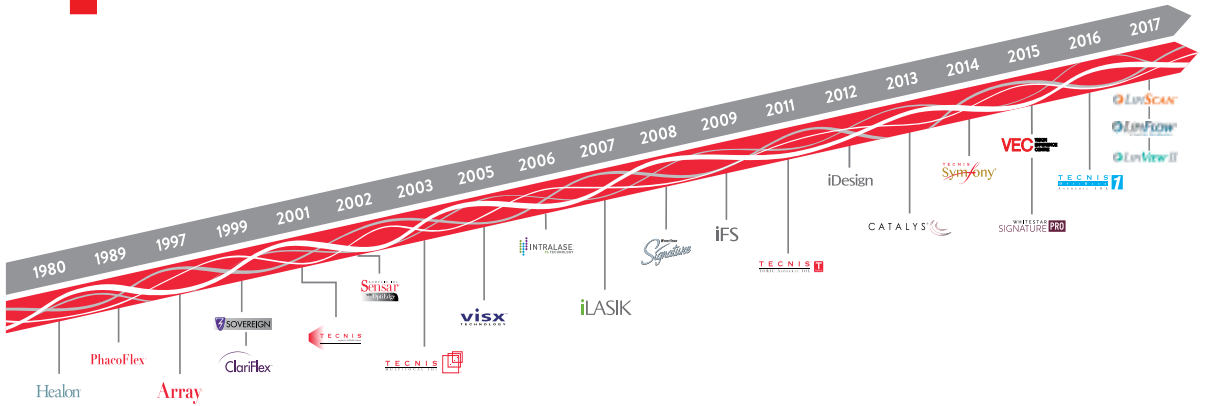
- Easily create and customize high-definition videos of your procedures



1. DRIVEN BY CONSTANT INNOVATION
2. A GLOBAL BRAND RECOGNIZED BY PATIENTS
3. OFFERING OUTSTANDING SERVICE AND SUPPORT

1

Driven by constant innovation



Johnson & Johnson VISION

2

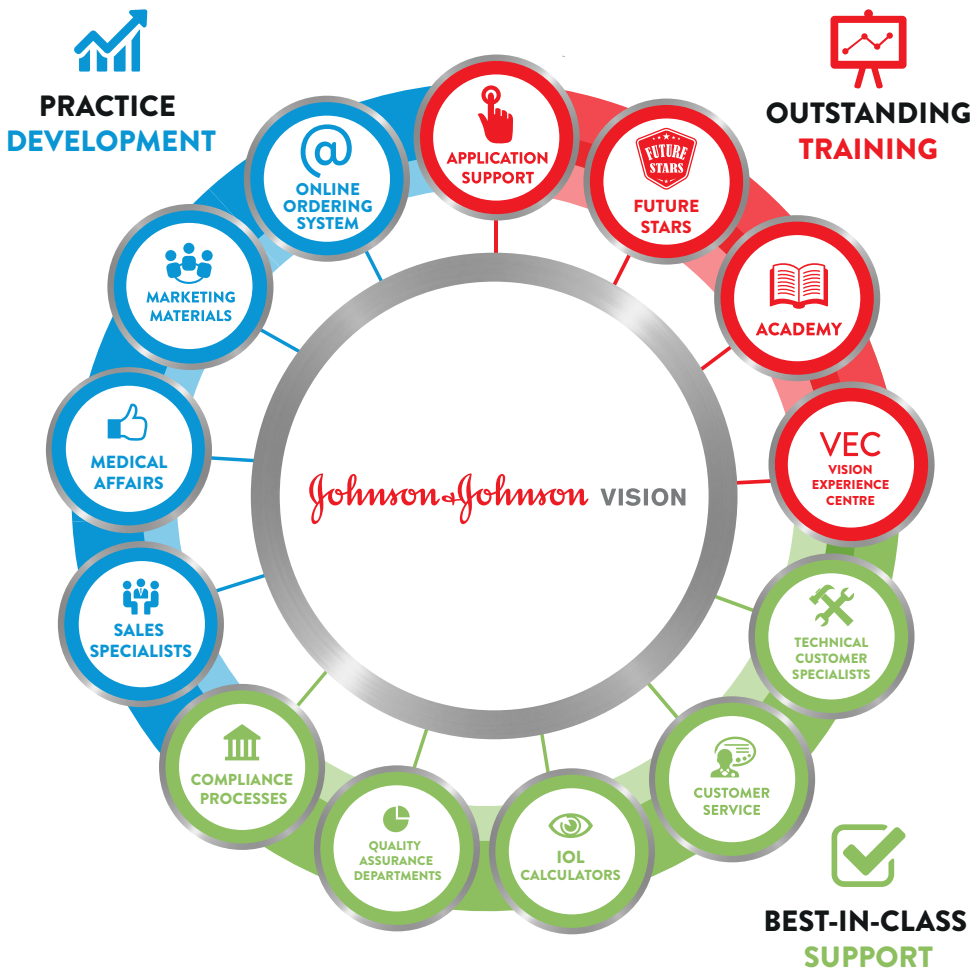
A global brand recognized by patients



*Brands available in specific markets

ONE PARTNER FOR YOU

3 Offering outstanding service and support



WHITESTAR SIGNATURE PRO SYSTEM PHYSICAL SPECIFICATIONS

System Console		Metric
Console dimensions (with display)	Width	61 cm
	Depth	61 cm
	Height	150 cm
Power cord length		600 cm
Weight (including IV pole)		84 kg
Foot pedal		
Advanced Control Pedal		
Dimensions	Width	27 cm
	Length	36 cm
	Height	14 cm
Weight		7 kg
Cord length		366 cm
Advanced Linear Pedal		
Dimensions	Width	25 cm
	Length	39.6 cm
	Height	12.4 cm
Weight		5 kg
Cord length		366 cm
Programmable IV Pole		
Maximum travel		106 cm
Velocity		6 cm/sec
Maximum lift weight		1.1 kg
Wireless Remote Control		
Dimensions	Width	13 cm
	Length	13 cm
	Height	4 cm
Weight		0.9 kg

REFERENCES

1. Operator Manual for the **WHITESTAR SIGNATURE PRO** Phacoemulsification System. (p. 9). Santa Ana, Calif.; Abbott Medical Optics Inc. REF2015CT0479.
2. Assil K, et al. Transverse vs torsional ultrasound: prospective randomized contralaterally controlled study comparing two phacoemulsification-system handpieces. *Clinical Ophthalmology*. 2015;9:1405-1411. REF2015CT0477.
3. Data on File - Comparison study: **WHITESTAR SIGNATURE**® PRO System with **OPO73 FUSION**® Fluidics pack, Centurion System with active FMS pack and Inifiniti System with Intrepid Plus pack Post Occlusion Surge. Abbott Medical Optics, Inc. Dec. 14, 2016. DOF2016CT0034.
4. Schmutz JS, Olson RJ. Thermal Comparison of Inifiniti OZil and Signature Ellips Phacoemulsification Systems. *Am J Ophthalmol* 2010;149:762-767. REF2016CT0070.
5. Cahoon JM, et al. Comparison of venturi and peristaltic vacuum in phacoemulsification. *J Cat Refract Surg*. 2015;41(2):428-432. REF2016CT0274.

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