

WHITESTAR
SIGNATURE PRO



It's all in
**your
hands**

**LENS EXTRACTION
PHACOEMULSIFICATION SYSTEM**

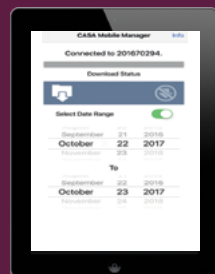
Johnson & Johnson VISION

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.

CASA is not a medical device.



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

Exceptional versatility

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 various combinations 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

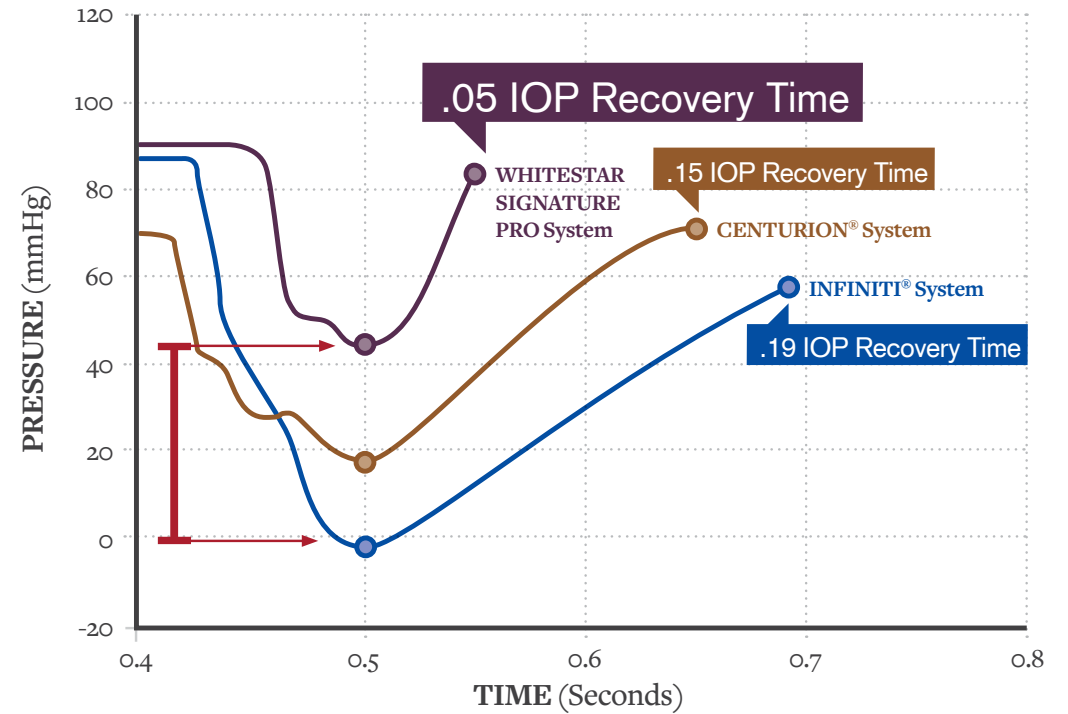
- Less corneal edema²
- Lower endothelial cell loss²
- Reduced risk of thermal damage¹



EFFICIENCY IN THE PROCEDURE WITH *ELLIPS™ FX* HANDPIECE

- A solution for efficient lens extraction²
- Continuous, elliptical ultrasound for both power and followability³

POST-OCCLUSION SURGE IN PERISTALTIC MODE⁴



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.

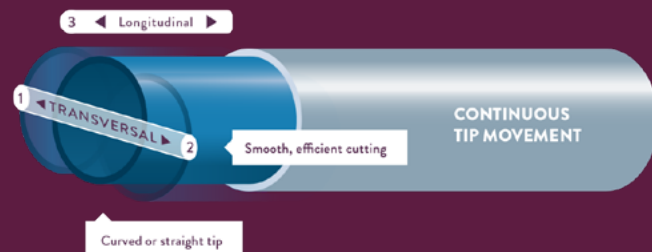
WHITESTAR SIGNATURE PRO

ELLIPS™ FX ULTRASOUND

⚡ EMPOWERED EFFICIENCY

- Uses a continuous, elliptical pattern for smooth, efficient cutting^{2,3}
- 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.⁵

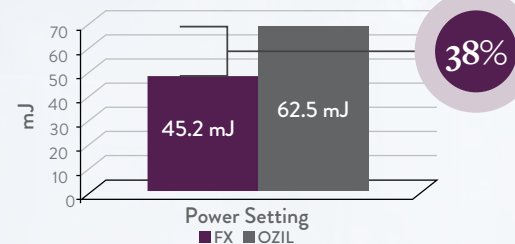


Ultrasound efficiency

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

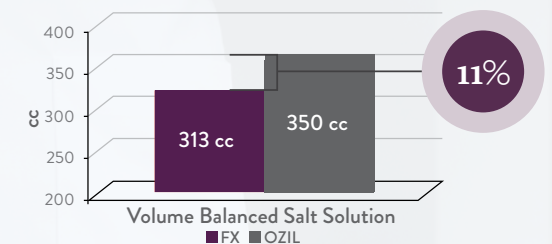
LOWER POWER SETTING²

Phaco Power Setting
P = 0.208



LESS BALANCED SALT SOLUTION VOLUME²

Balanced Salt Solution Volume Used
P = 0.037



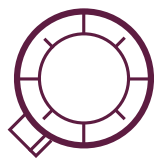
The effective phaco time for **ELLIPS™ FX Handpiece** was 31.97 seconds shorter than with **INFINITI® System OZil® Handpiece**, and was statistically significant (P = 0.0019).

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

Every surgeon is different

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.

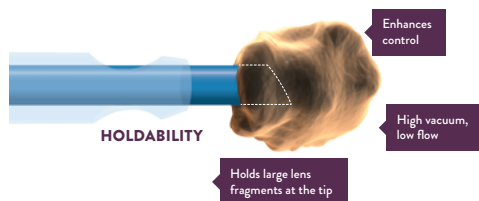


Proactive IOP Management

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

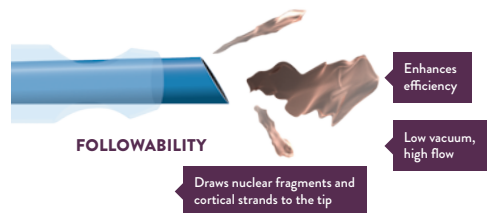
PERISTALTIC FOR INTRAOPERATIVE CONTROL

- Fine fluidics control during sculpting¹
- High vacuum levels for nucleus segmentation¹
- Holds large fragments at the tip, allowing surgeons to effectively pull first quadrant centrally^{6,7}
- Helps reduce post-occlusion surge with CASE⁴



VENTURI FOR EFFICIENT EXTRACTION

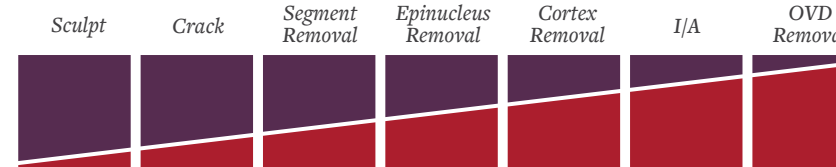
- Improved followability draws nuclear fragments and cortical strands to the tip^{6,7}
- Enhances phacoemulsification efficiency⁶
- Reduces time of fragment removal⁶



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^{1,7}
- Venturi for followability and efficient lens extraction⁶
- On-demand transition between pumps for efficiency at every step^{1,6}



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, LOS platforms or their accessories. CASA is not currently available for Android devices.

*Based on publicly available sources on the Stellaris® System, INFINITI® System and CENTURION® System in the U.S. as of April 2016.

CASA is not a medical device.



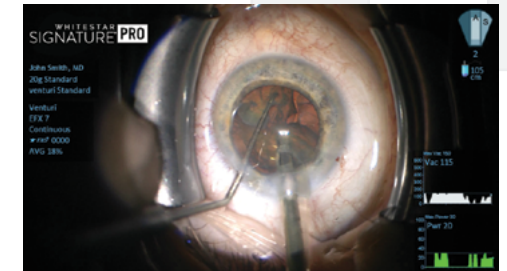
There's nothing better than when things go your way. The **WHITESTAR SIGNATURE™ PRO** System is engineered for prolific versatility and control, so the way it works is the way you do.¹

Ready when you are.



CAPTURE YOUR CASES

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



TWO CHOICES OF FOOT PEDALS

ADVANCED CONTROL PEDAL¹

- 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 PEDAL¹

- 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



WHITESTAR SIGNATURE™ PRO SYSTEM PHYSICAL SPECIFICATIONS¹

System Console		Metric
Console dimensions (with display)	Width	61 cm
	Depth	61 cm
	Height	150 cm
Weight (including IV pole)		84 kg
Power cord length		600 cm
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. 0100-7600. Rev. C. pp. 9, 10, 11, 12, 13, 82, 91, 96. REF2020CT4240.
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. Garg S, et al. My Preferred Phaco Platform - Focus on Phaco. *Cat Refract Surg Today*. Jan. 2014. REF2016CT0050.
4. DOF2016CT0034 - Comparison study: **WHITESTAR SIGNATURE™ PRO** System with OPO73 **FUSION™** Fluidics pack, Centurion System with active FMS pack and Infiniti System with Intrepid Plus pack Post Occlusion Surge. Dec. 14, 2016.
5. Schmutz JS, Olson RJ. Thermal Comparison of Infiniti OZil and Signature Ellips Phacoemulsification Systems. *Am J Ophthalmol* 2010;149:762-767. REF2016CT0070.
6. Cahoon JM, et al. Comparison of venturi and peristaltic vacuum in phacoemulsification. *J Cat Refract Surg*. 2015;41(2):428-432. REF2016CT0274.
7. Donnenfeld E, et al. CRST Supplement - Innovations in Phacoemulsification Devices and Techniques in 2021 - Nov.-Dec. 2021. REF2022CT4132.

iPad and the Apple App Store logo are trademarks of Apple Inc. Android and the Google Play logo are trademarks of Google LLC. All other trademarks are the intellectual property of their respective owners. For healthcare professionals only. Please reference the Instructions for Use for a complete list of Indications and Important Safety Information and contact our specialists in case of any question.