



Abbott

**IT'S JUST
PHACO UNTIL
IT CHANGES
THE WAY
YOU WORK.**

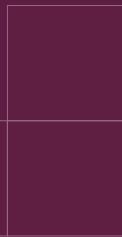


WHITESTAR
SIGNATURE **PRO**

**LENS EXTRACTION
PHACOEMULSIFICATION SYSTEM**



WHITESTAR SIGNATURE **PRO**



When you have options, you have the freedom to succeed. The **WHITESTAR SIGNATURE PRO** Phacoemulsification System is purposely engineered to give you exceptional versatility in the surgical arena. It empowers you to optimize your procedures and productivity — all while enjoying a surgical experience that's tailored to the way you work

IT'S YOUR CHOICE — on-demand fluidics technology, peristaltic, venturi or a combination of both pumps, allows immediate integration into your practice

OUTSTANDING performance and low-energy lens extraction delivered by combining sophisticated fluidics and efficient elliptical ultrasound

TOTAL PRACTICE OPTIMIZATION including a state-of-the-art mobile analytics app



Take command of your OR with **OUTSTANDING PERFORMANCE**

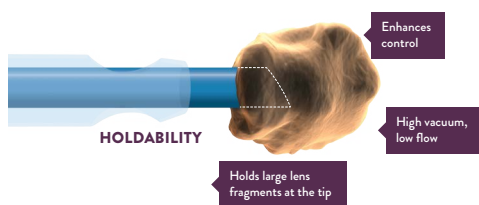
On-demand fluidics

HAVE IT BOTH WAYS.

Whether you are looking for a versatile solution for multi-surgeon environments or simply want to optimize your extraction procedures, the WHITESTAR SIGNATURE PRO System delivers the flexibility you need by empowering you to choose the pump that fits your technique — or even use a combination of both modalities.

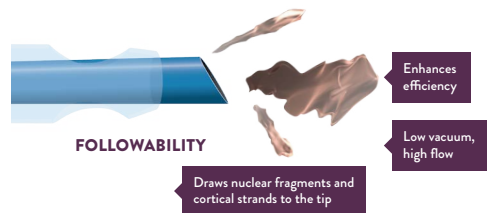
PERISTALTIC FOR INTRAOPERATIVE CONTROL

- 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



VENTURI FOR TRUE LOW-ENERGY EXTRACTION¹

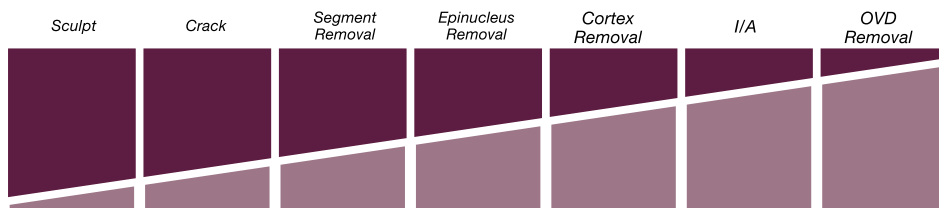
- Improved followability draws nuclear fragments and cortical strands to the tip
- Enhances phacoemulsification efficiency
- Reduces effective phaco time²
- Instantaneous response to occlusion breaks



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

The **peristaltic pump** can be optimal for the beginning of a case — especially during sculpt, crack and segment removal.

Because CASE regulates the maximum, the **venturi pump** is well suited for bringing elements to the tip during I/A toward the end of a case.



Excellent chamber stability

ADAPTIVE. PROACTIVE. RESPONSIVE.

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) TECHNOLOGY

- Optimizes power settings for enhanced control and improved efficiency³
- Uses little to no ultrasound, enabling true low-energy lens extraction¹ and reducing the risk of thermal damage³
- Adjusts to any combination of cataract density, surgical technique or personal preferences



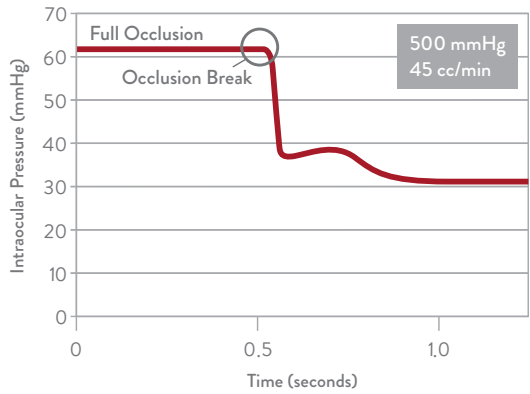
CASE Technology is an intelligent vacuum monitoring system designed to maintain excellent chamber stability.

EVERY ASPECT COUNTS

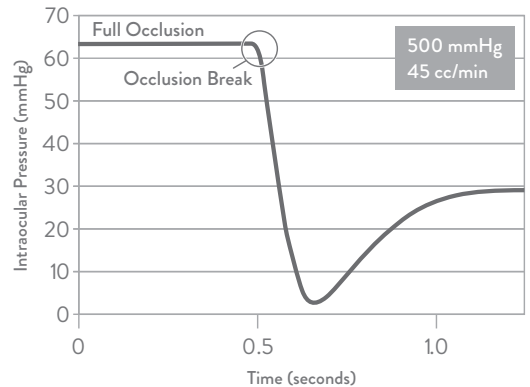
From the predictability of gravity-fed infusion to proprietary algorithms for post-occlusion surge protection, almost **every element of the system** contributes to preserving intraocular pressure (IOP) throughout extraction.

TURN INSIGHT INTO ADVANTAGE

Chamber Stabilization Test **WITH AUTOMATIC OCCLUSION SENSING⁴**



Chamber Stabilization Test **WITHOUT AUTOMATIC OCCLUSION SENSING⁴**



*Occlusion was simulated by obstructing flow.

FUSION[®] FLUIDICS TECHNOLOGY WITH AUTOMATIC OCCLUSION SENSING

- Preserves intraocular pressure (IOP) throughout extraction
- Continuously monitors IOP and proactively adjusts to mitigate occlusion breaks and reduce post-occlusion surge
- Anticipates pressure changes and proactively adjusts settings to maintain IOP
- Adapts within 20 milliseconds to maintain stability
- Preserves optimal IOP/pressure — even at higher vacuum and flow settings
- Compatible with both peristaltic and venturi settings



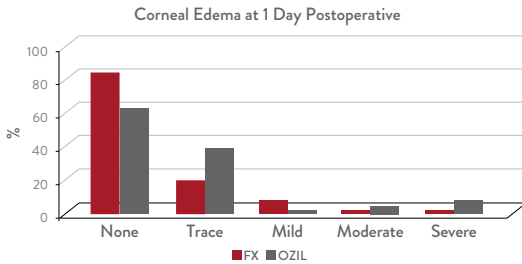
True ultrasound efficiency

A PROVEN SOLUTION FOR TRUE LOW-ENERGY EXTRACTION.¹

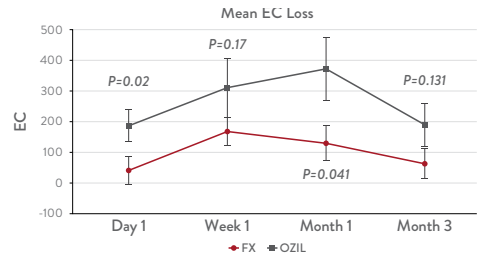
For outcomes that make a difference, you need a smart solution. The ELLIPS® FX Handpiece is just that, allowing you to add ease and efficiency to your procedures — without changing your preferred tip.

OPTIMIZE POSTOPERATIVE OUTCOMES

LOWER CORNEAL EDEMA²

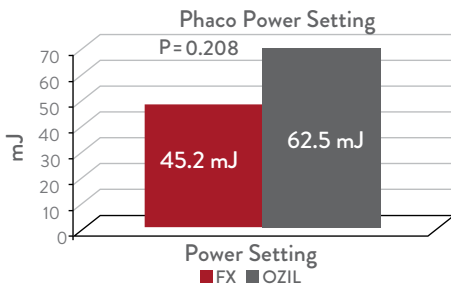


LOWER ENDOTHELIAL CELL LOSS²

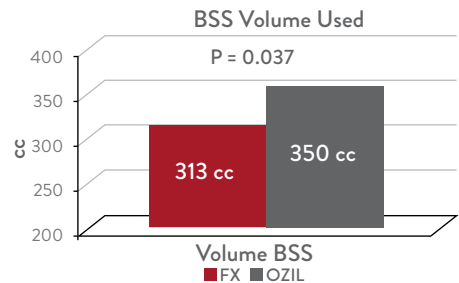


EMPOWER SURGICAL EFFICIENCY

LOWER POWER SETTING²



LESS BSS VOLUME²



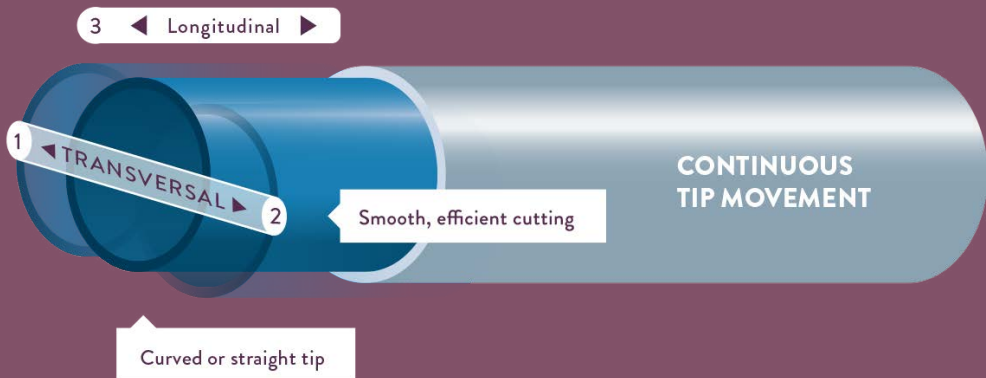
The effective phaco time for ELLIPS® FX handpiece was 31.97 seconds shorter than with Infiniti OZil handpiece, and was statistically significant (P = 0.0019).

■ FX: ELLIPS® FX handpiece
■ OZIL: Infiniti OZil handpiece

ELLIPS[®] FX ULTRASOUND

- Uses a continuous, elliptical pattern for smooth, efficient cutting
- Reduces effective phaco time,² enabling true low-energy lens removal¹
- Minimal ultrasound time to reduce risk of thermal damage³
- High performance with minimal clogging²
- Smooth cutting, even in hard lenses

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



Take PHACO further with **TOTAL PRACTICE OPTIMIZATION**

State-of-the-art analytics

A NEW STANDARD IN PRACTICE MANAGEMENT.

The future of lens extraction isn't simply about innovation for the OR, but about what goes beyond it. With interactive practice development applications — including **the first mobile analytics tool in phaco** — we're setting the standard in intelligent solutions for the total spectrum of your practice.

CATARACT ANALYSIS AND SETTINGS APPLICATION (CASA)

- The first practice-management tool of its kind
- Delivers accessible performance metrics to your tablet
- Gives you a customized, strategic view of a practice
- Designed for surgeons, practice managers and everyone in between



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

Abbott Medical Optics does not provide or sell iPad devices with the CASA application, phaco systems, LCS platforms or their accessories. CASA is not available for Android devices.

Please read the CASA user's guide for a comprehensive instruction of use.



ELEVATE YOUR PRACTICE WITH CASA — AVAILABLE IN THE APPLE APP STORE.



CONNECT

Easily connect to one or multiple systems over Wi-Fi for secure, user-friendly access to your data.



VISUALIZE

Turn data into personalized, digestible insights. Then, apply it to strategically improve case volume, energy use and more.



ANALYZE

Filter your data based on date, facility, surgeon and other criteria for simple, customized performance metrics.



OPTIMIZE

Empower a new level of procedural understanding for continuous improvement across the spectrum of your practice.

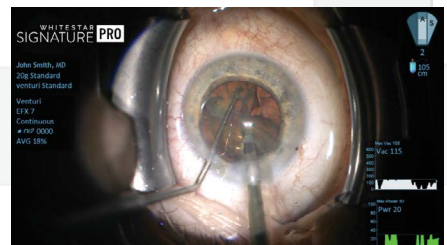
TAILOR YOUR ENHANCEMENTS TO KEY PERFORMANCE AREAS INCLUDING:

- Ultrasound time per case
- Ultrasound time per sub-mode
- Surgeon
- Case time
- Turnover time
- And other critical areas

Please read the CASA user's guide for a comprehensive instruction of use.

HIGH-DEFINITION SURGICAL MEDIA CENTER (HD-SMC)

Create and customize your own surgical videos for teaching and presentations with comprehensive, editable data and video capture.





Enhanced user experience

WORK YOUR WAY.

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.

ADVANCED LINEAR FOOTPEDAL

- Four-button, wireless footpedal 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



SIMPLIFIED GRAPHICAL USER INTERFACE

- Easy setup and planning saves you time and hassle
- Streamlined display that's easy to read and operate
- Intuitive navigation optimized for your surgical priorities



THE POWER OF CHOICE

- Choose the pump that fits your technique
- Easily switch between pumps within a case
- 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



WIRELESS REMOTE CONTROL

Ultimate convenience and control for all surgical modes and settings



HIGH-SPEED, DISPOSABLE VITRECTORS

Two excellent options to support the way you work



UNIVERSAL CAUTERY CONNECTORS

Compatibility with all cautery cords for streamlined integration

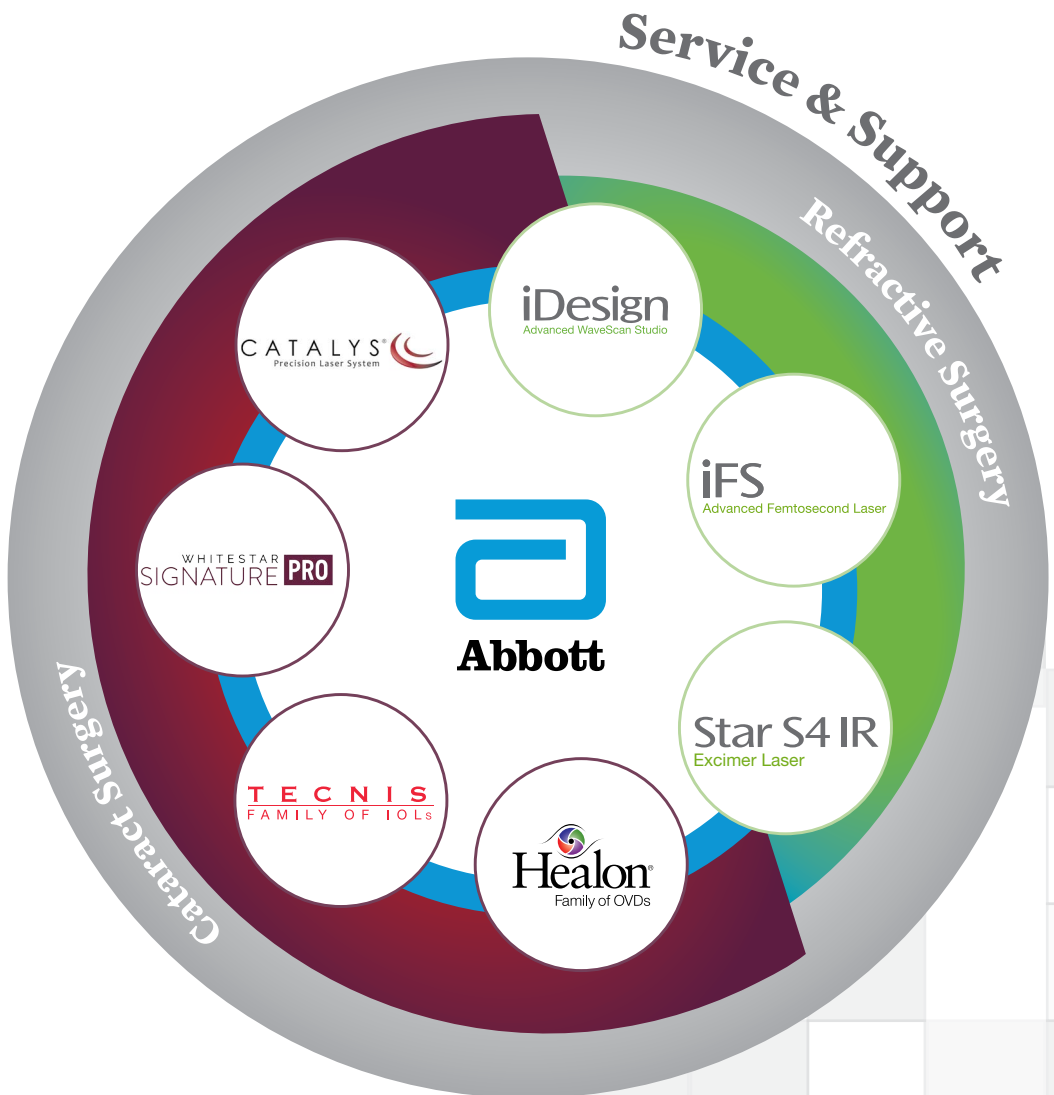


Abbott total cataract solution

READY WHEN YOU ARE.

At Abbott, we're focused on the future of eye surgery — and committed to ensuring the investment you make for your practice will look tomorrow just as good as it does today.

ONE PARTNER FOR YOU



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		6 m
Weight (including IV pole)		84 kg
Foot pedal		
Single Linear Foot Pedal		
Dimensions	Width	31 cm
	Length	27 cm
	Height	14 cm
Weight		4.5 kg
Advanced Control Pedal		
Dimensions	Width	27 cm
	Length	36 cm
	Height	14 cm
Weight		7 kg
Cord length		36 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		
Maximun travel		106 cm
Velocity		6 cm/sec
Maximun lift weight		1.1 kg
Wireless Remote Control		
Dimensions	Width	13 cm
	Length	13 cm
	Height	4 cm
Weight		0.9 kg

REFERENCES

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3. Operator Manual for the WHITESTAR SIGNATURE PRO Phacoemulsification System. Santa Ana, Calif.; Abbott Medical Optics Inc. REF2015CT0479.
4. Data on File 171 - WhiteStar CASE Chamber Stability. Abbott Medical Optics Inc. Santa Ana, CA. 22 April 2014. REF2014CT0019.
5. Schafer ME. Thermal Characterization of Phacoemulsification Tips. Presented at ESCRS Berlin 2008. REF2014OTH0026.

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