Why STREAMLINE® Surgical System Is Ideal for First-Line, Implant-Free Treatment

With single-handed control and intuitive point-and-click functionality, this solution adapts seamlessly to any OR, patient, or treatment, streamlining the cataract surgery workflow.

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The STREAMLINE® Surgical System (New World Medical; Figure 1) is designed for ophthalmic surgical procedures, requiring precise delivery of ophthalmic viscoelastic fluid. It features an inner cutting cannula engineered to create controlled incisions in the trabecular meshwork[1], enabling surgeons to perform targeted trabeculotomy with efficiency and consistency independent of viscoelastic delivery. STREAMLINE® can be seamlessly incorporated into a cataract procedure or performed as a standalone technique[1], offering added versatility in the OR . Since its initial launch in 2021, the STREAMLINE® Surgical System has undergone thoughtful design enhancements focused on improving usability and surgical precision. For example, the cannula has been extended to allow for more comfortable maneuvering within the anterior chamber.

I believe the system's streamlined point-and-click functionality makes it exceptionally intuitive for ophthalmic surgeons. One of the most impactful updates is the transition from a blue to a clear outer sleeve, a change that has significantly improved intraoperative visualization (Figure 2). This enhancement allows surgeons to more clearly see the tip of the device and the fluid wave as it is delivered, providing confidence in real-time as they engage with the intended tissue. In my hands, the clear tip has made a notable difference in comfort and precision.

DESIGNED FOR REAL-WORLD EFFICIENCY

Whether used during cataract surgery or as a standalone procedure, STREAMLINE® offers practical benefits for surgeons and staff alike. Its minimal setup requirements support surgical flow, while its innovative ClickPulse® technology enables three steps in one motion: retraction of the outer sleeve, creation of an incision via the cutting cannula, and delivery of viscoelastic fluid.[1] This allows for minimal tissue disruption and controlled, consistent outcomes. The system offers particular value in scenarios where preserving future treatment options is advantageous. Its precision and control can help reduce intraoperative challenges, especially in various anatomies or when managing patients on anticoagulants, while also supporting consistent outcomes across a broad range of cases.

CONCLUSION

The STREAMLINE® Surgical System was designed with ease of adoption in mind.

Figure 1. The STREAMLINE® Surgical System offers an intuitive, implant-free option for ophthalmic surgeons seeking precision and ease of use.

Figure 2. A close-up view of the tip of the device, highlighting the new clear outer sleeve.

The learning curve is short, and the clear visualization afforded by its new outer sleeve provides added confidence during use. With its intuitive design, efficiency in the OR, and implant-free approach, STREAMLINE® offers a practical and versatile tool for ophthalmic surgeons seeking precision. While I believe this system to be a beneficial product in many settings, I consider the STREAMLINE® Surgical System one of the best first-line options in my armamentarium. ■

1. STREAMLINE® Surgical System [Instructions for Use]. Rancho Cucamonga, CA: New World Medical; REV A, September 2024.

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