
Boston Scientific
Advancing science for life™
Boldly evolving urologic stone treatment
StoneSmart™ Solutions ecosystem
Get started ›

Powered by the StoneSmart Solutions ecosystem, the LithoVue™ Elite Single-Use Digital Flexible Ureteroscope System — paired with the Asurys™ Fluid Management System — is designed to transform urologic care by delivering a next-generation operating room (OR) experience. Together, these connected technologies aim to deliver the consistent, predictable performance urologists and staff expect.

Delivering meaningful innovations through connected technologies

- Informed by **real-world insights** from urologists and staff
- Engineered to **transform the OR experience** and **advance urologic stone care**
- Aims to **streamline workflows** and **reduce manual effort** for the OR team

LithoVue Elite Ureteroscope and StoneSmart Connect Console

Asurys Fluid Management System

Flow matters

A key challenge for urologists lies in balancing sufficient irrigation flow to maintain visibility with keeping intrarenal pressure (IRP) low to help promote safe patient care. IRP is related to the balance between fluid flow and the narrowness of the outflow pathway — specifically, how easily fluid can be introduced into the kidney versus how easily fluid can flow out of the kidney. Pressure builds when the outflow path is narrowed by either anatomy or obstruction, even if flow is steady. Managing all these relationships in real time can be challenging given the constraints of current fluid management tools.

Stone aspiration technologies may further increase fluid requirements, adding complexity to flow management for the urologist and OR staff.

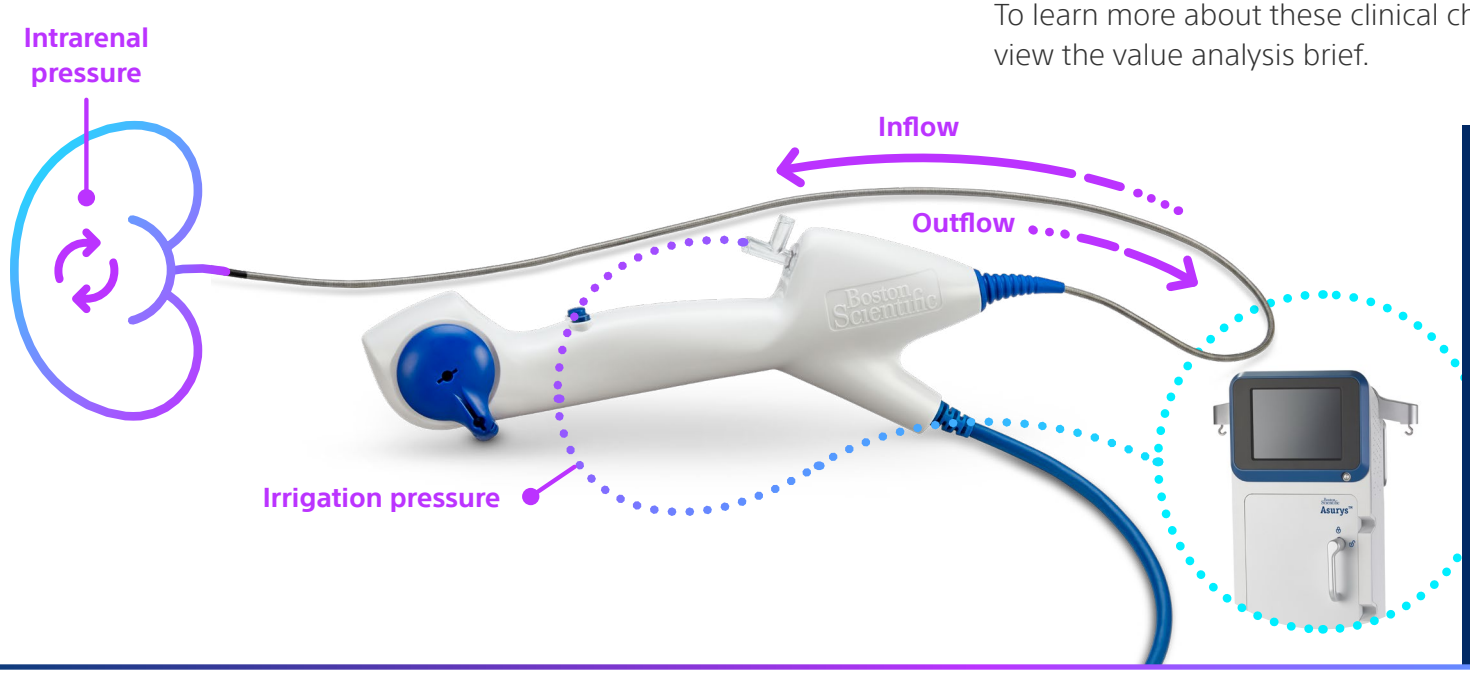
Pressure matters

Traditionally, the measurement of IRP is not routinely performed during ureteroscopy procedures. Elevated IRP has been associated with a range of complications, including:

- Pain
- Renal damage and pathological changes
- Systemic inflammatory response syndrome
- Fluid absorption
- Fever
- Infection
- Sepsis
- Pyelovenous backflow

Until now, no commercially available system could automatically respond to real-time IRP data from the scope tip to adjust and regulate fluid flow.[1]

To learn more about these clinical challenges and current research, view the value analysis brief.



The StoneSmart Solutions platform currently includes two connected technologies designed to increase control over visualization and irrigation:

LithoVue Elite System ›

Asurys Fluid Management System ›

LithoVue™ Elite

Single-Use Digital Flexible Ureteroscope System
with intrarenal pressure monitoring

See more. Know more. Do more.

The first ureteroscope system with IRP monitoring, LithoVue Elite gives you the power to make informed, real-time clinical decisions.

Experience enhanced image quality

With a high-resolution digital chip and proprietary VividVue™ Technology image processing, LithoVue Elite delivers bright, sharp, clear images. Accurate, bold colors and fast image processing give you immediate visualization along with a wide view and 270° deflection in both directions.

Monitor IRP in real time

See accurate, real-time, second-by-second intraluminal pressure data directly on your current OR monitor. Real-time pressure monitoring allows you to see pressure data and the scope image on one screen, enabling immediate awareness of pressure within the collecting system.

Take control of image and video capture

Get direct control of image and video capture from the sterile field. Programmable buttons on the scope handle enable you to record, save, and export saved data without the need to coordinate with staff.

Seamlessly integrate the system into your OR

The StoneSmart Connect Console, the LithoVue Elite System's compact processing unit, integrates into your OR or existing mobile visualization tower and simplifies switching between cystoscope and ureteroscope. The endoscopic image is displayed on your existing OR monitors to help minimize distraction and OR logistics.

Asurys™
Fluid Management System

See clearly. Treat with assurance.

Get improved control over irrigation and visualization by pairing Asurys with LithoVue Elite for on-demand fluid flush.

When connected with LithoVue Elite with IRP monitoring, Asurys gives urologists enhanced flow control,* responds to intraluminal pressure data to automatically regulate inflow, and is designed to be an intelligent system[2] that aids in procedural IRP management.

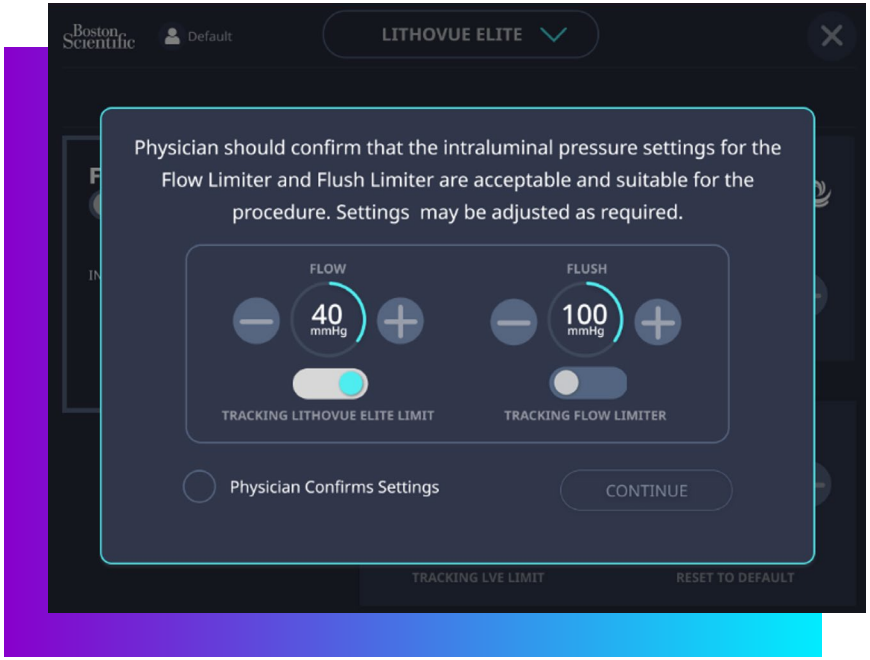
In standalone mode, Asurys is designed to be a single irrigation management solution for the endourology care team, with modes for cystoscopy, ureteroscopy, percutaneous nephrolithotomy (PCNL), and benign prostatic hyperplasia (BPH) procedures.

*As compared to Asurys without LithoVue Elite with intrarenal pressure monitoring.

Together, Asurys and LithoVue Elite offer:

Flow and flush limiters

Using IRP measurements from LithoVue Elite, Asurys can automatically regulate irrigation inflow to help minimize the potential of exceeding physician-selected flow and flush limiter settings, which are designed to aid procedural IRP management.



This image is not a recommendation or clinical guidance on flow limiter or flush limiter settings.

Irrigation control through LithoVue Elite buttons

Asurys is designed to reduce reliance on support staff for irrigation control and manual flush via the LithoVue Elite scope buttons.

Flow	Increase irrigation pressure
Flush	Decrease irrigation pressure

ClariSee Flow Compensation

Tools inserted into the working channel of a scope may reduce irrigation flow rate, which can impair visualization and may require adjustment of irrigation settings to maintain the same flow.[3] ClariSee Flow Compensation is designed to automatically maintain a consistent flow rate with tools in the working channel.

Asurys is also designed to:

Streamline communication and coordination with low-fluid notifications

Low-fluid notifications are designed to provide audible and visual alerts for the surgical staff when fluid bags are running low, and again when they are empty.

Irrigate a variety of procedures

Versatile procedure modes enable you to perform cystoscopy, ureteroscopy, PCNL, and BPH procedures with the same irrigation setup process for more consistent cases.

Save desired settings with customized profiles

Save your desired irrigation flow, flush, and IRP limiter settings to your physician profile for consistent procedural setup.

The Asurys automated irrigation system is designed to **reduce the manual effort required by nursing staff** to set up, pressurize, and maintain consistent irrigation flow as compared to traditional fluid management techniques.[4]

Our commitment to environmental sustainability

At Boston Scientific, we strive to continually improve our environmental performance. As a commitment to our physicians, our patients, and the communities we serve, we carefully examine the materials we use in our products, the resources used to make and transport them, and how we can reduce waste.

LithoVue Elite Ureteroscope System

Bio-based plastic handles

LithoVue Elite Ureteroscope handles are now made primarily with bio-based plastic material. Up to 85% of the material used in the handles comes from renewably sourced raw material.[4*] Using bio-based plastic made from natural resources, instead of conventional fossil-based materials, offers a more renewable alternative without compromising scope performance.

Waste reduction program

Boston Scientific has partnered with an R2V3 takeaway vendor to offer its program to our customers with the purchase of LithoVue and LithoVue Elite Ureteroscopes. The vendor's R2V3 takeaway program is intended to help reduce waste by recycling parts of used LithoVue and LithoVue Elite Ureteroscopes.

Asurys Fluid Management System

Reduced use of harsh chemicals

Asurys cartridges utilize X-ray sterilization instead of ethylene oxide sterilization.[5-7]

Reduced packing waste

Asurys capital is delivered in reusable packaging, eliminating the need to dispose of large packaging items.

*Material is attributed via the mass balance approach.

Connect with your Boston Scientific representative to determine if you could benefit from the LithoVue Elite System and the Asurys Fluid Management System.

Explore the StoneSmart Solutions platform.

LithoVue Elite >

Asurys >

On-demand education >

Asurys™ Fluid Management System Brief Summary

Scan the QR code, visit bostonscientific.com/asurys-brief-summary, or click to view the Asurys Fluid Management Indications, Safety, and Warnings.

LithoVue™ Elite Brief Summary

Scan the QR code, visit bostonscientific.com/lithovue-elite-brief-summary, or click to view the LithoVue Elite Indications, Safety, and Warnings.

References

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