



ClearPetra 2.0

Ureteral Access Sheath

Creating a difference in healthcare



For More Information
www.bio-spectrum.com

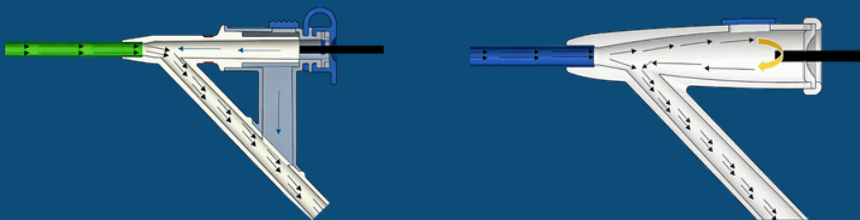
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Flexible Ureteral Access Sheath

The ClearPetra Ureteral Access Sheath has an oblique side branch. With the pressure control vent located on the oblique side branch, accessibility may be limited when the operator's dominant hand holds the flexible ureteroscope and the other hand stabilizes the scope shaft and sheath. ClearPetra 2.0 therefore repositions the pressure control vent to improve accessibility and operational convenience during flexible ureteroscopy.

Key Features & Clinical Benefits

- **Ergonomic Control & Reduced Manpower:** Enables intuitive vent control and sheath stabilization, supporting a streamlined workflow and potentially reducing assistance needs
- **Effortless Removal Slider:** Enables rapid vent closure via a push-to-close design, supporting immediate pressure control.
- **Enhanced Flexibility with Reduced Outer Diameter:** 0.5Fr smaller OD with the same ID, enabling greater deflection while maintaining stone and scope passage.
- **Pressure-Driven Flow Principle:** Enables controlled flow direction via a stable pressure gradient, supporting efficient evacuation.



Fluid Dynamics of ClearPetra 2.0 and Competition

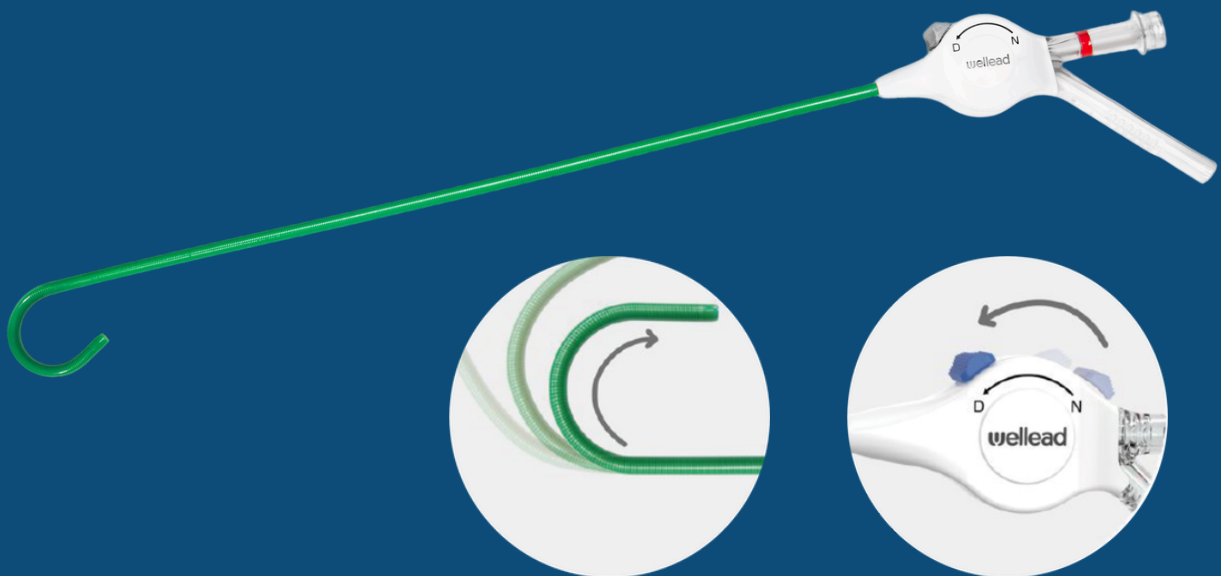


ClearPetra Drive

Steer. Lock. Evacuate.

Designed to improve lower-pole access and enable efficient suction evacuation under different version.

Lower-pole stones often require extreme deflection and sustained control. Conventional passive-deflection approaches may demand higher torque and repeated micro-adjustments.



Integrated with an active steerable distal tip and a lockable deflection mechanism, ClearPetra Drive, is designed to provide more controlled positioning and stable access to support efficient lithotripsy and challenging lower-pole anatomy.

Key Features & Clinical Benefits

Active steerable, lockable distal tip

- Passive deflection: the flexible distal tip can be passively deflected with the flexible ureteroscope to access lower-pole calyces
- Active steering: The distal tip can be actively steered using the lever on the ergonomic handle, helping reduce torque transmitted to the ureteroscope - particularly beneficial for smaller diameter disposable ureteroscopes.
- Lockable deflection: The deflection position can be locked in place to maintain stable access for efficient suction evacuation and minimize repositioning.

Suction evacuation platform

- Maintains the core benefits of the ClearPetra Suction Evacuation Access Sheath platform
- Supports evacuation of dust and fragments under direct endoscopic vision, helping reduce reliance on repeated basked extraction.

EEZ Portable Roller Irrigation Pump

Efficient · Economic · Zero hassle

Irrigation is essential for clear visualization and to remove blood clots, dust and stone fragments during endoscopic lithotripsy. The EEZ Portable Roller Irrigation Pump is designed to infuse and irrigate body surface and cavity with sterile fluid with variable present flow rates.



Key Features & Clinical Benefits

- **Roller Pump-Based Flow Control:** Stable and consistent flow independent of pressure fluctuations.
- **Preset Flow Rate Options:** Quick switching between commonly used flow rates for efficient workflow.
- **Rechargeable Battery Power:** Supports application in various ORs and Wards.
- **Portable & Flexible Mounting:** Easily used on IV poles and adaptable to different setups.
- **Disposable Tubing System:** Helps reduce re-sterilization cost and minimizes cross infection risk.

Specification

Dimensions (L x W x H)

183mm x 130mm x 140mm (WP-I-04)
183mm x 150mm x 140mm (WP-I-04)

Weight

1.2 Kgs

Input Voltage

100 - 240V ~ 50/60Hz

Present flow rates with switch button for WP-I-04

Tubing	Switch 1	Switch 2	Switch 3	Switch 4
ITS-1	40 ml/min	80 ml/min	120 ml/min	160 ml/min
ITS-2	60 ml/min	120 ml/min	180 ml/min	240 ml/min
ITS-3	115 ml/min	250 ml/min	360 ml/min	480 ml/min

Adjustable flow rates with rotary knob control for WP-I-05

Tubing	Flowrate
ITS-1	40-180 ml/min
ITS-2	60-260 ml/min
ITS-3	110-500 ml/min

REF	Flowrate
U10A010420	EEZ Portable Roller Irrigation Pump • WP-I-04 Pump, Battery Charger U10A030210 • Foot Switch U10A030310, C Clamp U10A030110
U10A010520	EEZ Portable Roller Irrigation Pump • WP-I-04 Pump, Battery Charger U10A030210 • Foot Switch U10A030310, C Clamp U10A030110
U10A040170	ITS-1 Pump Tube
U10A040120	ITS-1 Pump Tube, Speed Control Lever
U10A040130	ITS-1 Pump Tube., Speed Control Lever, Irrigation Tube
U10A040140	ITS-1 Pump Tube, Irrigation Tube
U10A04270	ITS-2 Pump Tube
U10A040220	ITS-2 Pump Tube, Speed Control Lever
U10A040230	ITS-2 Pump Tube, Speed Control Lever, Irrigation Tube
U10A040240	ITS-2 Pump Tube, Irrigation Tube
U10A040370	ITS-3 Pump Tube
U10A040320	ITS-3 Pump Tube, Speed Control Lever