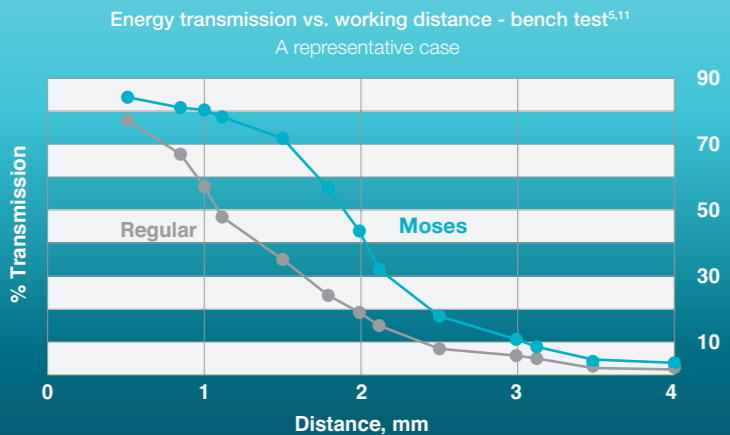


# A patent-protected innovation revolutionizing urology care

## Optimized energy transmission

MOSES is a groundbreaking, patent-protected pulse delivery technology, that remarkably improves energy transmission, resulting in more efficient lithotripsy and BPH treatments compared to the regular Holmium pulse



## 360° Urology Innovation

With shorter lithotripsy procedures and fragmentation times, reduced retropulsion, and more efficient enucleation and vaporization procedures, the MOSES technology sets a new level of innovation for your urology practice



# MOSES™ Pulse 120H

## Technical Specifications

Parameter	Value
Wavelength	2.1 um
Max Optical Power	120 W
Repetition Rate	5-80 Hz
Pulse Energy	0.2-6 J
Aiming Beam	Green. 3 intensity settings and blinking mode
Pulse Width	Adjustable (Short, Medium, Long)
Smart Identification System (SIS)	YES
Voice confirmation indicating system's operational status	YES
Dual Pedal Footswitch	YES
Fiber & Suction Tube Support Arm	Optional
Moses Technology	YES
Dimensions [W / L / H]	47 x 116 x 105 cm 18.5" x 45.6" x 41.3"
Case saver mode	YES
Weight	245 kg / 539 lbs for single phase
Electrical	200-240 VAC, <46 Amp, 50/60 Hz
Delivery systems	Lumenis reusable and single use delivery systems
Warranty	One year parts and labor

## References:

1. Mark Cynik, Holmium Laser Enucleation of the Prostate is More Efficient with More Laser Power, abstract #MP7-01, Moderated Poster Session 7: BPH/LUTS, WCE 2016
2. Beaghtler M, Leo M, Gass J, March J, Sandoval S, et al. (2017) Initial Experience with New High Powered 120 W Holmium for Vaporization of the Prostate. Urol Nephrol Open Access J 4(2): 00119. DOI: 10.15406/unoaj.2017.04.00119
3. Yehudit Kraizer, Shadie Badaan, Moshe Elazar, Haim Epshtein, Uri Shpolansky: Perfused bladder model for simulation of hemostasis control using holmium laser. WCE poster 2014
4. Andonian et al. Double-blinded Prospective Randomized Clinical Trial Comparing Moses and Regular Modes of Holmium Laser Lithotripsy: Preliminary Results. Podium presentation at EAU 2018
5. Elhilali et al. Moses technology in a stone simulator.Can Urol Assoc J. 2018 Apr;12(4):127-130. doi: 10.5489/cuaj.4797. Epub 2017 Dec 22
6. Elhilali M., Badaan S., Ibrahim A., Andonian S. Use of Moses Pulse Modulation Technology to Improve Holmium Laser Lithotripsy Outcomes: A preclinical study. Journal of Endourology (June, 2017)
7. Khurshid Ghani, Ureteroscopic holmium laser lithotripsy using the Moses technology. EAU 2018
8. I.Colon, I. Grunberger et al., Transurethral Holmium Laser Vaporization of the Prostate (HoLVP): What to Expect on Initial Experience, abstract #MP7-19, Moderated Poster Session 7: BPH/LUTS, WCE 2016
9. Dusting utilizing suction technique (DUST) for percutaneous nephrolithotomy: Use of a dedicated laser handpiece to treat a staghorn stone. Ghani K.R., Roberts W.W. EAU poster 2017
10. A Usability Comparison of Laser Suction Handpieces for Percutaneous Nephrolithotomy. Daww CA, Borofsky MS, York N, Lingeman JE. J Endourol. 2016 Nov;30(11):1165-1168
11. Bench test results may not necessarily be indicative of clinical performance

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## Offers a wide range of treatment options, including

- Benign Prostatic Hyperplasia
- Kidney stones
- Bladder stones
- Ureteral stones
- Strictures
- Bladder tumors
- Biliary stones
- Gastroenterology procedures
- Orthopedic procedures
- ENT procedures
- Thoracic & Pulmonary procedures
- Gynecology procedures

## Risk information

The use of the Lumenis Pulse 120H in urology is contraindicated for patients who are unable to receive endoscopic treatments or are intolerant to prolonged anesthesia, as well as for resection or excision of large vascularized organs.

Holmium lasers are intended solely for use by physicians trained in the use of the Ho:YAG (2.1 µm) wavelength. Incorrect treatment settings can cause serious tissue damage. The laser should be used only on tissues that are fully observable.

See the system user manual for a complete list of contraindications and risks.

Moses™ Technology  
US patent number - 9895 196 B2

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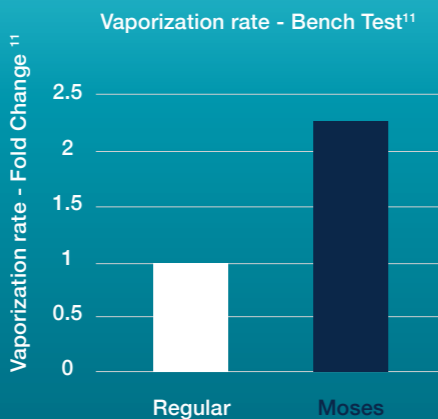
# Redefining Holmium Laser BPH Treatments

## MOLEP - MOSES™ Laser Enucleation of the Prostate The new generation of HoLEP

Leverage the power of the MOSES P120H for a more efficient tissue removal, leading to 20% increase in enucleation rate. The enhanced enucleation efficiency results in improved intraoperative vision and cleaner dissection of the capsular plane.<sup>1</sup>

## MOSES Vaporization – Acceleration in hand

The MOSES technology shows superior vaporization rate and efficiency compared to regular pulse, indicating potential reduction in procedure time.<sup>11</sup>



## Improved coagulation

Control hemostasis and keep bleeding minimal with the advanced pulse reshaping technology and customized dual pedal of the MOSES Pulse 120H.<sup>2,3</sup>

“The MOSES technology has great potential in **improving the efficiency of enucleation procedures** and also enabling a **faster learning curve**.

In my initial clinical experience, I found that there was a **smoother cutting effect, excellent hemostasis and improved visibility**. Additionally, the enhanced vapor bubble significantly assists in **separating the adenoma from the capsule**, resulting in **better orientation in the plane**.”

Prof. Ivano Vavassori, Azienda Ospedaliera Ospedale Treviglio Caravaggio, Italy

# MOSES Technology – The new era in Holmium laser Lithotripsy

Be it kidney, ureteral or bladder stone – the MOSES Technology provides a 360° lithotripsy solution for flexible ureteroscopy, PCNL and mini PCNL



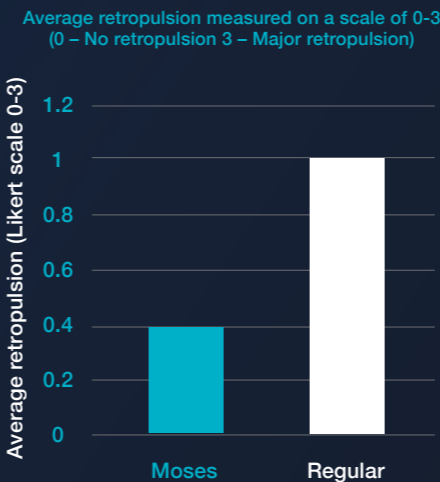
## Shorter procedures

As shown in a **randomized clinical trial**, the MOSES Technology reduces **procedure time by 20%**, making your treatments faster and more efficient.<sup>4,5</sup>



## Limited retropulsion

With 60% less retropulsion, you can minimize the incidents of ureteral stone migration into the kidney. You may also avoid chasing the stones in the bladder or kidney.<sup>4,5,6</sup>



## Enhanced fragmentation

MOSES **optimized energy transmission** makes every shot count, thus **reducing your fragmentation time by 25%**.<sup>4,5</sup>



# State of the art fibers and accessories

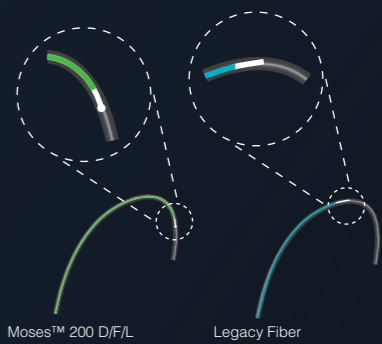
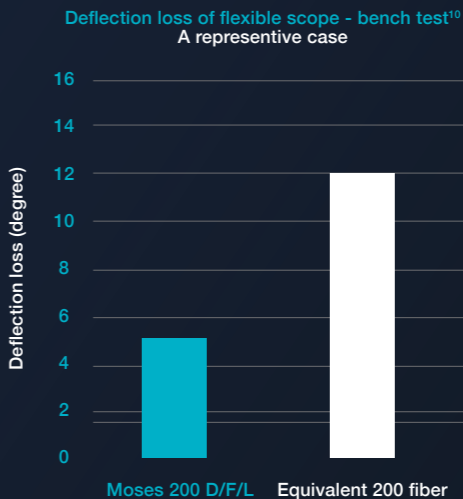


## Leave no stone behind

Advanced ball-shaped tip enables a smooth initial insertion of the Moses 200 D/F/L through a flexible scope, and designed to minimize potential scope damage.

Moses 200 D/F/L flexible fiber is designed to minimize scope deflection loss, allowing to reach difficult-to-access stone locations.<sup>6,11</sup>

If the stone is hard to reach, just use the MOSES Distance mode, optimized to deliver energy at a distance, allowing you to reach stones in challenging locations.<sup>7</sup>



## Vaporize tissue in full contact

Xpeeda™ D/S/L side firing fiber is designed to deliver increased energy transmission and enables work in full contact mode without causing deep tissue charring.<sup>2,8</sup>



## Focus on what matters during PCNL

Suction hand-piece allows simultaneous laser-lithotripsy and aspiration of stone fragments.<sup>9,10</sup>

\*Pending CE mark

