



Lumenis® 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
Integrated Suction Pump	YES
Dimensions [W / L / H]	47 x 116 x 105 cm 18.5" x 45.6" x 41.3"
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 Cynk, 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. American Urological Association Guideline: Management of Benign Prostatic Hyperplasia (BPH), 2010
3. John Michalak, David Tzou, Joel Funk: HoLEP: the gold standard for the surgical management of BPH in the 21st Century Am J Clin Exp Urol 2015;3(1):36-42
4. Ehab A. Elzayat, Enmar I. Habib, and Mostafa M. Elhilali: Holmium laser enucleation of the prostate: a size-independent new "gold standard" urology 66 (Supplement 5A), November 2005
5. Gilling PJ et al, Long-term results of a randomized trial comparing holmium laser enucleation of the prostate and transurethral resection of the prostate: results at 7 years. BJU Int 2012; 109(3): 408-11.
6. Elmansy H et al, Holmium Laser Enucleation Versus Photoselective Vaporization for Prostatic Adenoma Greater than 60 Ml: Preliminary Results of a Prospective, Randomized Clinical Trial. J Urol 2012; 188: 216-221.
7. Ahyal S et al, Holmium Laser Enucleation versus Transurethral Resection of the Prostate: 3-Year Follow-Up Results of a Randomized Clinical Trial. Eur Urol 2007; 52(5):1456-63.
8. Galina Gagin, Duncan Morhardt, John Hollingsworth and Khurshid Ghani, Stone dusting: Outcomes of ureteroscopic lithotripsy using a multi-cavity high-power holmium laser. Abstract# 16-4424 AUA conference 2016

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.

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Lumenis® Pulse™ 120H

All in One Laser Urology Platform

Vaporization

HoLEP

Flexible Ureteroscopic
Lithotripsy

PCNL

Designed for hemostasis

Pulse reshaping technology, powered by a dedicated footswitch

Revised pulse shape minimizes hemostasis time*

Pulse Shape	Energy / pulse [J]	Treatment mode	Average hemostasis time [sec]
Short	0.9	contact	>30
Long	0.6	contact	8

*Bench study results may not be indicative of clinical performance

Ease of use

Innovative design and GUI

An intuitive GUI with a touch screen allows for the tracking of accumulated energy during the procedure and double settings are controlled by the systems' dual pedals.

Customizable dual pedals

Allows for easy switching between laser settings during procedure. This feature might be applied for having one pedal dedicated for hemostasis in order to address bleeding faster and more efficiently.



Validated

with Lumenis® Range of Delivery Devices

- SlimLine™ family of fibers: Is designed for durability, flexibility and versatility in urological procedures
- SlimLine™ DFL 200 ultra-flexible fiber: Is designed for flexible ureteroscopy procedures
- Xpeeda™ side firing fiber: A tailored solution delivers more energy directly to the tissue in full contact



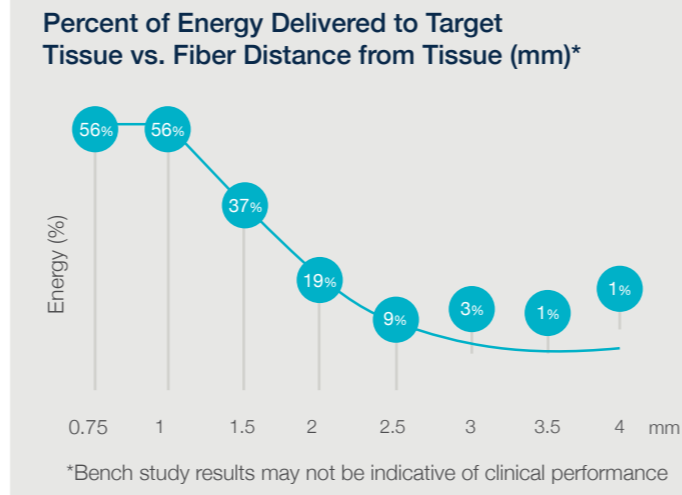
Four Key Urology Applications with **One Platform.**



Powerful Vaporization

120W of vaporization power:
Lumenis' highest powered holmium laser

Xpeeda™ side firing fiber: A tailored solution delivers more energy directly to the tissue in full contact



“For Vaporization of the prostate, the Lumenis Pulse™ 120H stands apart from other available technologies. Tissue is easy to remove and, as we have experienced, patients can have their catheter removed almost immediately and go home the same day.”

Mr. Christof Kastner, Consultant Urologist, Cambridge University NHS Trust, UK.

Comprehensive HoLEP Offering

- Accelerated Enucleation Rate¹
- Over 15 years of clinical evidence have made HoLEP the right choice for Urologists and patients worldwide
- HoLEP is recommended by the AUA for BPH². Among its advantages are a low reoperation rate, and wide patient applicability^{2,3}. Compared with alternative treatment options for BPH, HoLEP has a major advantage in efficacy and safety³⁻⁷

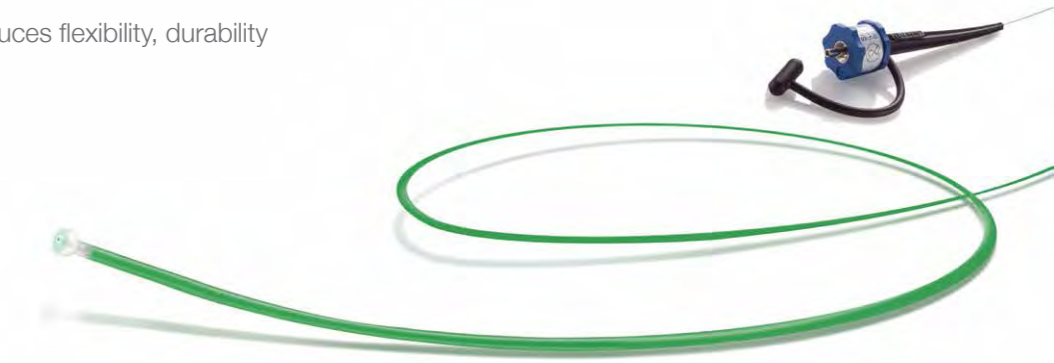


“The Lumenis Pulse™ 120H will make HoLEP procedures precise, faster and efficient. When using the product, I found that no matter how fast I went with the enucleation, the hemostasis was excellent, the view was very good and it allowed me to significantly reduce procedure time.”

Mr. Tev Aho, Consultant Urologist, Cambridge University NHS Trust, U.K.

Ultra Speed Stone-Dusting™ for Flexible Laser Ureteroscopy

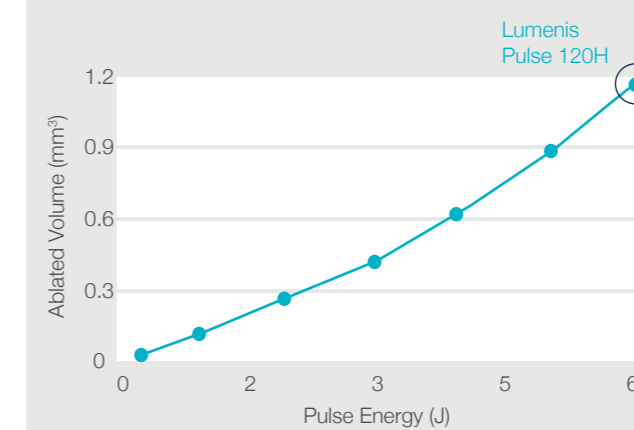
- Ultra-speed dusting capabilities with 80Hz repetition rate and minimal energies of 0.2J
- Clinical evidence suggests that stone dusting may reduce the need for basket extraction thereby reduce possible complications associated with the routine use of ureteral access sheaths⁸
- SlimLine™ 200 D/F/L fiber introduces flexibility, durability and efficiency



PCNL Made Complete

- Suction handpiece allows simultaneous lithotripsy and aspiration of stone fragments
- Enabling physicians to perform laser lithotripsy during both PCNL and flexible ureteroscopic lithotripsy using one system
- Effective lithotripsy utilizing broad range of energies (even up to 6J)

Stone Fragmentation Rate*
Graph showing crater size as function of joules



The higher the energy the larger the crater

*Bench study results may not be indicative of clinical performance

