

## 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
Smart Identification System (SIS)	YES
Voice confirmation indicating system's operational status	YES
Dual Pedal Footswitch	YES
Fiber & Suction Tube Support Arm	YES
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 SIS reusable and single use delivery systems
Warranty	One year parts and labor

### References

1. Hazem M. Elmansy, Ahmed Kotb and Mostafa M. Elhilali, Holmium Laser Enucleation of the Prostate: Long-Term Durability of Clinical Outcomes and Complication Rates During 10 Years of Followup, The Journal of Urology, 2011, 186:1972-1976.
2. Gilling PJ, HoLEP vs. TURP Reoperation Rates and Cost Effectiveness, presented material at WCE and AUA 2009.
3. Ehab A. Elzayat, Mostafa M. Elhilali, Holmium Laser Enucleation of the Prostate (HoLEP): Long-Term Results, Reoperation Rate, and Possible Impact of the Learning Curve, European Urology, 2007, 52(1465-1472).
4. 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.
5. 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.
6. 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.
7. Tasçi AI, İlbey YÖ, Lüleci H et al: 120-W Green-Light laser photoselective vaporization of prostate for benign prostatic hyperplasia: midterm outcomes. Urology 2011; 78: 134.
8. Gupta M et al, Comparison of standard transurethral resection, transurethral vapour resection and holmium laser enucleation of the prostate for managing benign prostatic hyperplasia of > 40 g. BJU Int 2006; 97:85-9.

### About Lumenis

Lumenis is a global leader in the field of minimally-invasive clinical solutions for the Surgical, Ophthalmology and Aesthetic markets, and is a world-renowned expert in developing and commercializing innovative energy-based technologies, including Laser, Intense Pulsed Light (IPL) and Radio-Frequency (RF). For nearly 50 years, Lumenis' ground-breaking products have redefined medical treatments and have set numerous technological and clinical gold-standards. Lumenis has successfully created solutions for previously untreatable conditions, as well as designed advanced technologies that have revolutionized existing treatment methods in each and every one of the verticals we operate in. Our drive for innovation stems from an uncompromising commitment to improving the health and well-being of our patients; addressing new and growing needs of aging populations; and in offering medical professionals cutting-edge solutions that fit seamlessly into the health-economics environment of the 21st century. The world over, we bring Energy to Healthcare.

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## The Most Versatile, Cost Effective Laser Platform

The unique combination of higher system power, higher energy per pulse and a higher repetition rate 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
- Podiatry procedures

# Lumenis® Pulse™ 120H

## All in One Superior Laser Urology Platform

- ✓ Vaporization
- ✓ HoLEP
- ✓ Flexible Laser Ureteroscopy
- ✓ PCNL



# Safer. Faster. Easier. Cost-Effective.

A Single Superior Platform for Urology's Four Key Applications,  
Generating MORE Satisfied Patients



## Vaporization

### The Most Powerful Holmium Solution for Accelerated Vaporization

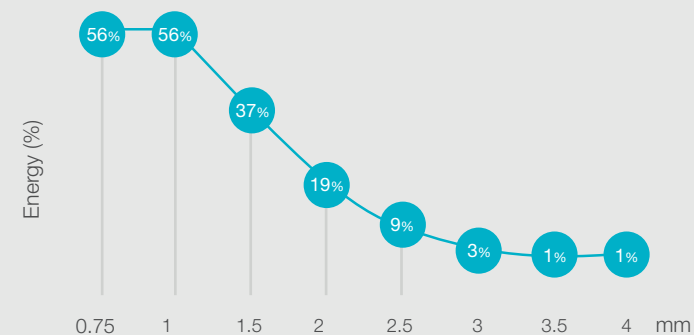
*"For Vaporization of the prostate, the Lumenis Pulse™ 120H stands apart from other available technologies and is clearly superior to KTP (GreenLight® Laser) or TURP's. Bleeding is minimal, tissue is easier to remove and, as we have experienced, patients can have their catheter removed almost immediately and go home the same day."*

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

- ✓ **Delivers 120W:** The highest holmium power on the market
- ✓ **Better energy utilization:** The new Xpeeda™ side-firing fiber revolutionizes utilization of the holmium power, delivering more energy directly to the tissue, due to its capability of being in contact with the tissue
- ✓ **Improved hemostasis:** Pulse reshaping technology, powered by a dedicated footswitch

An amazing combination of power & efficiency minimizes vaporization procedure time

Percent of Energy Delivered to Target Tissue vs. Fiber Distance from Tissue (mm)



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

\*Results are based on Lumenis internal testing on an ex-vivo model (blood perfused porcine bladder)

## Holmium Laser Enucleation of the Prostate (HoLEP)

### Continuing the Lumenis Legacy of Superior HoLEP Technology

*"The Lumenis Pulse™ 120H will make HoLEP procedures more 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.

- ✓ Accelerated Vaporization Rate
- ✓ Over 15 years of proven clinical results have made HoLEP the right choice for Urologists and patients worldwide
- ✓ HoLEP is the gold standard treatment for BPH<sup>1</sup>. Among its advantages are a low reoperation rate, safety, and wide patient applicability<sup>2,3</sup>. Compared to alternative treatment options for BPH, HoLEP has a major advantage in efficacy<sup>4,5</sup>, safety<sup>6,7</sup> and overall procedure cost<sup>8</sup>.

Make the Right Choice for Your Patients!

## Flexible Laser Ureteroscopy

### Robust Stone Dusting™ Revolutionizes Flexible Laser Ureteroscopy (FLUR)

- ✓ Stone Dusting eliminates the need for stone retrieval, shortening FLUR duration
- ✓ The Lumenis Pulse 120H provides a repetition rate of 80Hz, providing superior dusting capabilities
- ✓ Our new SlimLine™ 200 D/F/L fiber introduces unparalleled flexibility, durability and efficiency



Take the next leap in Flexible Laser Ureteroscopy!

## PCNL

### Minimize Procedure Time with the First High Energy Laser Solution for PCNL

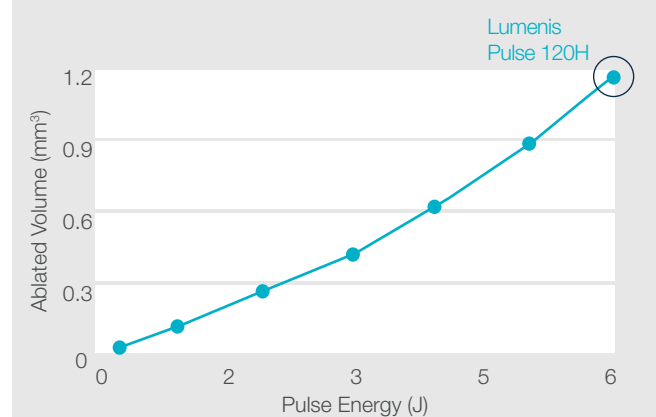
*"The development of the Lumenis Pulse 120H laser is going to add to the armamentarium of stone management. The combination of suction with high energy laser to break the stones reduces the procedure duration and provides superior solution comparing to available methods on the market, yet it requires a comparative study to prove it scientifically".*

Dr. Mahesh Desai, Medical Director, Muljibhai Patel Urological Hospital, India.

- ✓ Achieve higher fragmentation rates using the highest holmium energy per pulse (6J) on the market today
- ✓ Integrated suction capabilities create a smooth procedure workflow, along with easier and faster stone evacuation

### Stone Fragmentation Rate

Graph showing crater size as function of joules



The higher the energy the larger the crater