Litho 100
High Power Holmium Surgical Laser System
LITHO 100
THE HOLMIUM SURGERY REVOLUTION

After the success of its Litho device, Quanta System proudly widens its offer in lithotripsy for the most demanding customers with its first-class 105W Holmium solution, Litho 100, further entering the HoLEP world.

Litho 100 meets the increasing demand in matching efficacy, flexibility and cost-effectiveness combining all of these in a unique multi-application laser platform able to perform both HoLEP and lithotripsy.

Litho 100 brings outstanding innovation by offering the exclusive MasterPULSE technology for retropulsion control, plus energy and frequency (up to 80Hz) settings generally out of range for other laser devices. These groundbreaking advantages merge with the superior quality and reliability the Quanta System brand is renowned of worldwide.

If you are interested in performing high power HoLEP and stone treatment by means of the best lithotripsy settings and features, Litho 100 is, for sure, the laser you are looking for.
Upon the increasing demand for high frequency Holmium lithotripsy, Quanta System raised the bar by offering a generous 80 Hz frequency with its new Litho 100. Users can now achieve the dusting effect in two ways:

- **Dusting - Long Pulse**: the vapor tunnel generated by long pulses allows efficient stone ablation.
- **Dusting - High Frequency**: energy is released in smaller amounts with a higher repetition (40-80 Hz).

Litho 100 outclasses the other 50-100W Holmium systems in terms of settings for stone treatment. In short, Litho 100 offers greater settings and enhanced versatility with respect to Holmium devices with similar or even higher power.

**THE LASER YOU HAVE BEEN WAITING FOR**

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**WELCOME HoLEP**

HoLEP (Holmium laser enucleation of the prostate) has almost replaced TURP in BPH treatment. Strong clinical evidences and long-term investigations demonstrated the reliability, safety and effectiveness of HoLEP. The high power output is your perfect ally to complete a gentle and fast adenoma enucleation in any size of prostate. Thanks to its superior frequency and double footswitch, HoLEP with Litho 100 provides excellent results in terms of long-term effectiveness, safety, hemostasis and fast recovery.

**RETROПULSION CONTROL**

The MasterPULSE technology revolutionizes the concept of lithotripsy by granting complete control over stone retropulsion, avoiding the bothersome and time-consuming fetching of targeted fragments. Advanced lithotropsy with the Vapor Tunnel mode.

**ALL-AROUND DUSTING**

Choose the traditional Long Pulse Dusting or take advantage of Litho 100's impressive 80 Hz frequency to perform a High Frequency Dusting lithotripsy.

**SMART SELECTION OF SETTINGS**

Not acquainted with Holmium lithotripsy and its settings? Quanta System knows your concern about using wrong or ineffective parameters and can guide you to a safe and correct emission adjustment.

**COMPLETE LASER SOLUTION**

Litho 100 was designed for those struggling with finding a system able to perform effectively both BPH and stone treatments, with also excellent results in treating urinary carcinomas and strictures.

**STRIVE FOR GREATNESS**

Avail yourself with larger parameter ranges in terms of frequency and pulse energy, widening your choice of treatment and tailoring the procedure to patient needs.

**FLEXIBILITY AT ITS GREATEST**

Thanks to the double footswitch, you can switch instantaneously from a high power cutting emission to the coagulation mode, or from dusting to traditional fragmentation.
Dreaming about adjusting settings simply based on your visual feedback?

Ever felt the device did not match your expectations regarding settings regulation?

Innovation by Quanta System: 
**MasterPULSE** technology

7 steps to fine-tune your emission!

**Emission adjustment has never been so easy!**

**RETROPULSION CONTROL**

Enough with struggling in finding a good parameter combination to avoid stone instability and renouncing to have both effectiveness and ease of treatment!

**Litho 100 is the ONLY laser device providing complete control over stone retropulsion.** Simply regulating the intuitive retropulsion bar, the user can quickly tune laser emission according to his visual feedback. This exclusive feature cuts down treatment time and simplifies setting adjustment, enhancing treatment effectiveness.

**Vapor Tunnel Mode**

Specific high-energy long pulses develop a vapor bubble connecting fiber tip to stone surface (vaporization of water in between). Once the bubble reaches the stone, ablation occurs by direct transmission of laser energy. As the bubble has not collapsed in the meantime, retropulsion is limited.
SMART SELECTION OF SETTINGS

As world leaders in the field of Holmium lithotripsy, we know how often inexperienced surgeons are in need of some suggestions regarding device settings to start the treatments with. Quanta System further understands the importance of having user-friendly systems in order to achieve satisfactory and fast treatments.

The S3-Mode (Smart Selection of Settings) was born as guided modality to enhance user experience and to make Litho 100 the best laser solution regardless of your experience with Holmium laser.

ARE YOU ALREADY EXPERIENCED IN HOLMIUM LASER?
Skip the guided selection and start immediately the treatment by choosing the manual settings.

HAVE YOU FOUND YOUR FAVORITE EMISSION SETTINGS?
Save them for reuse in future treatments, the system allows to save unlimited customized user presets.

WHAT LITHO 100 OFFERS:

- Setting of different emissions on the two pedals
- Specific application setting
- Description of the treatment and suggestions about its use
### TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>2.1 µm</td>
</tr>
<tr>
<td>Average Power</td>
<td>up to 105 W</td>
</tr>
<tr>
<td>Repetition rate</td>
<td>up to 80 Hz</td>
</tr>
<tr>
<td>Energy per pulse</td>
<td>up to 5 J</td>
</tr>
<tr>
<td>Pulse duration</td>
<td>50 - 1100 µs</td>
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<tr>
<td>Beam delivery</td>
<td>Wide range of flexible silica fibers</td>
</tr>
<tr>
<td>Aiming beam</td>
<td>532 nm (adjustable &lt;5 mW) - Class 3R</td>
</tr>
<tr>
<td>Fiber recognition</td>
<td>RFID System</td>
</tr>
<tr>
<td>Activation</td>
<td>Double footswitch</td>
</tr>
<tr>
<td>Electrical requirements</td>
<td>230 Vac; 50/60 Hz; 6.2 kVA - 208 Vac; 50/60 Hz; 6.2 kVA</td>
</tr>
<tr>
<td>Cooling</td>
<td>Internal chiller</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>10°C - 30°C</td>
</tr>
<tr>
<td>Dimensions</td>
<td>52 cm (W) x 120 cm (D) x 123 cm (H) (monitor closed)</td>
</tr>
<tr>
<td>Weight</td>
<td>230 kg</td>
</tr>
</tbody>
</table>

**CAUTION - Laser radiation**

**VISIBLE AND INVISIBLE LASER RADIATION**
- Avoid eye skin exposure to direct or scattered radiation
- Laser product: Class 4
- Aiming beam: Class 3R

*Rx Only*

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Quanta System products are manufactured according to the International standards and have been cleared by the most important International notified bodies. The Company is EN ISO 9001:2008 and EN ISO 13485:2012 certified. Quanta System S.p.A. was founded in 1985 and belongs to the EI En. Group (a public company listed in the Star segment of the Italian Stock Exchange) since January 2004. The company, divided into three business units (medical, scientific and industrial) is specialized in manufacturing of laser and opto-electronic devices.