Cyber Ho 60
Holmium Laser System
Cyber Ho 60
THE REVOLUTION IN LITHOTRIPSY

Cyber Ho Holmium laser (2.1 µm) meets the increasing demand of efficacy, flexibility and cost-effectiveness with a unique multi-application laser platform able to perform both Lithotripsy and HoLEP. Cyber Ho brings outstanding innovation by offering the exclusive Vapor Tunnel™ and MasterPULSE™ technology for advanced retropulsion control, along with impressive energy and frequency (up to 60 Hz) settings.

General Overview

- Effective Lithotripsy
- High Frequency Emission (up to 60 Hz)
- Minimized Retropulsion
- BPH Treatment
- Reduced Depth of Penetration (0.3 - 0.4 mm)
- Soft Tissue Surgery
- High Versatility
- Quick ROI
The double footswitch enables immediate switch from one emission mode to another, with complete customization of pedal-mode association. No bothersome interruptions are needed for settings readjustment.
THE HIGHEST PULSE ENERGY
5 J allows the best pulse energy in its class

TREAT ALSO THE HARDEST STONES
Greater pulse energy allows to break harder stones

COLLECTION BASKET NEEDED
Retrieve stone pieces upon fragmentation
**Dusting Effect**

- **LONG PULSE**
  - Up to 1100 µs, for smooth Long Pulse Dusting

- **HIGH FREQUENCY**
  - Up to 60 Hz, for the best High Frequency Dusting in its class

- **LIMITED RETROPULSION**
  - Easy ablation with no need to fetch the stone

- **NO NEED FOR BASKET**
  - The obtained fine dust obviates the retrieval phase

- **EXTREME FREQUENCY**
  - Up to 60 Hz, for the best High Frequency Dusting in its class

- **LONG PULSE WIDTH**
  - Up to 1100 µs, for smooth Long Pulse Dusting
TIME SAVING
Less stone retropulsion prevents the time-consuming fiber repositioning, whereas enhanced energy transmission increases the ablation rate.

MAGNETIC EFFECT
The Vapor Tunnel effect allows stone ablation while holding the target in place, without inducing stone retropulsion.

EASIER TREATMENT
With a more stable target, lithotripsy treatment can proceed easily with fewer hassles.

TIME SAVING
Less stone retropulsion prevents the time-consuming fiber repositioning, whereas enhanced energy transmission increases the ablation rate.
As the pulse ends, the bubble collapses. The stone is dragged backwards together with the collapsing bubble (acting as a virtual stone basket).

Effective and fast ablation results from the enhanced transmission of pulse energy.

How the Virtual Basket works
Reducing retropulsion and modifying the tissue cutting get easier: instead of trying multiple different settings, start with your preferred ones and then adjust the MasterPULSE™ to tune the effect of laser emission based on your visual feedback. Regulation of pulse width has never been so easy!

**General Benefits**

- **EASE OF TREATMENT**
  Experience a more intuitive and different way to adjust laser settings, simply based on your visual feedback.
Example of Lithotripsy mode

**REDUCED STONE INSTABILITY**
Lower the stone instability step by step, by progressively increasing pulse width

**CUTTING DOWN TREATMENT TIME**
Obtain the desired effect quickly, without getting mad with the standard adjustment of energy and frequency parameters

**GREATER FLEXIBILITY**
7 levels of pulse width offer a greater flexibility with respect to the traditional 3 levels offered by the other holmium devices

- Long Pulse
- Short Pulse

Dusting
High Frequency

- Energy
  - up to 5 J
- Frequency
  - up to 60 Hz

Example of Lithotripsy mode

- 60 W
The large amount of literature demonstrates the efficacy and safety advantages of HoLEP (Holmium Laser Enucleation of the Prostate) with respect to traditional treatments available for BPH. Recent studies and trials have validated the excellent outcomes achieved by this technique, with its success being reproduced in a diverse array of patients. Clinical evidences proved a 50 - 60 W Holmium output to work perfectly for an effective and gentle enucleation. HoLEP with Cyber Ho provides excellent results in terms of long-term effectiveness, safety, hemostasis and fast recovery.

- Precise cutting
- User preset saving
- Guided selection of settings
- Double footswitch
User-friendly Software

GUIDED SELECTION
- BPH
- Lithotripsy
- Soft Tissues

SAVE AND LOAD OF SETTINGS

MasterPULSE™
Output Power
Up to 60 W
Energy
Up to 5 J
Frequency
Up to 60 Hz
Emission Counters
Fiber Info
200 - 1000 µm
Emission Mode

Energy
Up to 5 J

Output Power
Up to 60 W

Frequency
Up to 60 Hz

Emission Counters
Cyber Ho device can be operated with a large range of fibers, depending on the application, flexibility and settings required.

**Fibers**

- **STANDARD FIBERS**: For general use in stone and soft tissue treatments.
- **BALL TIP FIBERS**: Strongly simplify the insertion in already bent scopes.
- **PERFORMANCE FIBERS**: Designed to deliver great power even with small fibers.
- **GASTRO FIBERS**: Specifically designed for the fragmentation of gallstones.

**Core Components**

- **FIBER CORE**: Delivers full energy to the target.
- **JACKET**: Helps in recognizing fiber position and improves probe stiffness.
- **CLADDING**: Maintains radiation energy within the core.
AVAILABLE DIAMETERS
200, 272, 365, 550, 800 and 1000 µm

REUSABILITY
All fibers are available both as disposable and reusable (except ball tip model)

CLEANING
Reusable fibers can be sterilized by Sterrad® and steam sterilization

STERILIZATION TRAY
A dedicated tray for sterilization of fibers and tools

FIBER RECOGNITION
Cyber Ho automatically adjusts emission settings based on the connected fiber diameter
Cyber Ho 60 can be used to perform incision, excision, resection, ablation, vaporization, coagulation and hemostasis of soft tissue and in lithotripsy of stones in various medical specialties, including:

- ENT
- SIALOLITHIASIS
- DISCECTOMY
- GASTRO-ENTEROLOGY
- UROLOGY
  - LITHOTRIPSY
  - BPH
  - TUMOR (Bladder, UUT)
  - STRICTURES
  - BNI
- ARTHROSCOPY
## Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>2.1 µm</td>
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<tr>
<td>Average power</td>
<td>Up to 60 W</td>
</tr>
<tr>
<td>Repetition rate</td>
<td>Up to 60 Hz</td>
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<tr>
<td>Energy per pulse</td>
<td>Up to 5 J</td>
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<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>
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<tr>
<td>Aiming beam</td>
<td>532 nm (adjustable &lt;5 mW) - Class 3R</td>
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<tr>
<td>Fiber recognition</td>
<td>RFID System</td>
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<tr>
<td>Activation</td>
<td>Double footswitch</td>
</tr>
<tr>
<td>Electrical requirements</td>
<td>200-230 Vac; 50/60 Hz; &lt;30A, single phase</td>
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<tr>
<td>Cooling</td>
<td>Internal chiller</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>10°C ÷ 30°C</td>
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<tr>
<td>Laser class</td>
<td>4 (IEC/EN 60825-1:2014)</td>
</tr>
<tr>
<td>Dimensions and weight</td>
<td>52 cm (W) x 120 cm (D) x 123 cm (H) (monitor closed) - 200 kg</td>
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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 UNI EN ISO 9001:2015 and EN ISO 13485:2016 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.

Note: National local authorities may put restrictions to the parameters indicated in the above table, or may limit or remove certain intended uses. Specifications are subject to change without notice.