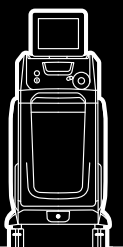


Cyber Ho 150

HOLMIUM LASER





Cyber Ho 150

THE REVOLUTION IN HOLMIUM SURGERY

Cyber Ho Holmium laser (**2.1 μm**) meets the increasing demand for efficacy and flexibility with a unique multi-application laser platform able to perform both **Lithotripsy** and **HoLEP**.

Cyber Ho 150 can reach up to **152 W** power and brings outstanding innovation by offering the exclusive **Vapor Tunnel™**, **Virtual Basket™** and **MasterPULSE** technologies for advanced retropulsion control.

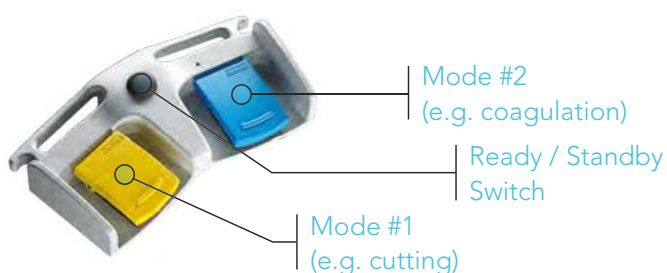
This device further offers impressive settings regarding energy and frequency (up to **100 Hz**).

General Overview

- ✓ BPH Treatment
- ✓ Effective Lithotripsy
- ✓ High Frequency Emission (up to 100 Hz)
- ✓ Minimised Retropulsion
- ✓ Reduced Depth of Penetration (0.3–0.4 mm)
- ✓ Soft Tissue Surgery
- ✓ High Versatility



Double Footswitch



The double footswitch enables **immediate** switch from one emission mode to another, with **complete customisation** of pedal-mode association. No bothersome interruptions are needed for settings readjustment.

BPH

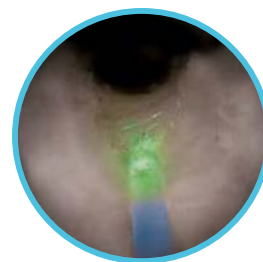
HoLEP (Holmium Laser Enucleation of the Prostate) is a proven technique for the treatment of **BPH** (Benign Prostatic Hyperplasia), with high effectiveness, safety and durability.

A significant body of scientific literature demonstrates its advantages in terms of **efficacy** and **safety** with respect to traditional treatments available for BPH.

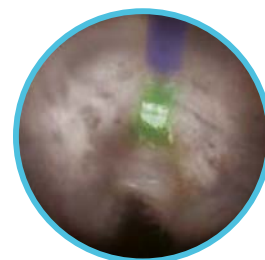
Recent studies and trials have validated the excellent outcomes achieved by this technique, with its success being reproduced in a diverse array of patients. HoLEP can be applied regardless of prostate size and in retreatment setting, with a low complication incidence and retreatment rate on long-term follow-up.

Cyber Ho 150 offers broad choice regarding settings selection, with superior surgical experience granted by the double footswitch, the intuitive and large modulation of pulse width and the **dedicated modes for the different treatment steps**.

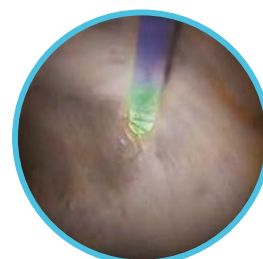
The endless combinations of settings and multiple tools allow the maximum treatment versatility, so that the surgeon can easily reach the desired outcome. As an alternative, the surgeon may use the side fibre to perform a HoLAP procedure for small prostatic adenomas.



Starting 5 o'clock incision



12 o'clock incision



Lateral lobe enucleation

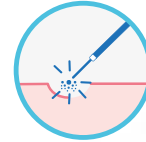


Delicate Areas Mode

Dedicated Coagulation Setting

FAST CUTTING

The limited depth of penetration, together with the fast tissue incision, results in precise cutting without affecting surrounding tissues.



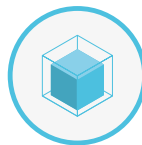
RELIABILITY

Clinical outcomes of HoLEP have been widely investigated, with many clinical studies demonstrating its safety and effectiveness even in the long run.



SIZE INDEPENDENT

HoLEP overcomes the limitations affecting other BPH techniques regarding prostate size.



EFFECTIVE HAEMOSTASIS

The holmium radiation is highly absorbed by water, allowing quick coagulation of bleedings.



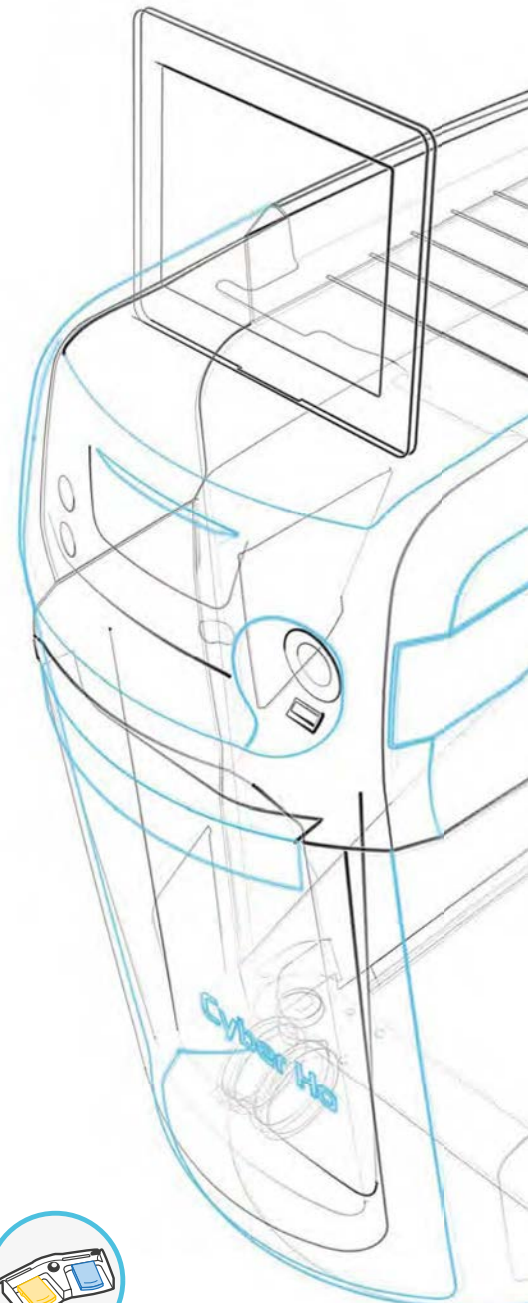
HIGH POWER

Up to 152 W output, for fast and quick incision, cutting down treatment time



DOUBLE FOOTSWITCH

Quick switch from one emission mode to another (e.g. from cutting to coagulation emission)



Vapor Tunnel™

Consisting of a **Single Specific Long Pulse**, this emission mode allows limited retropulsion and fine stone ablation. The Vapor Tunnel is designed to use the minimum peak power in accordance with selected output settings.



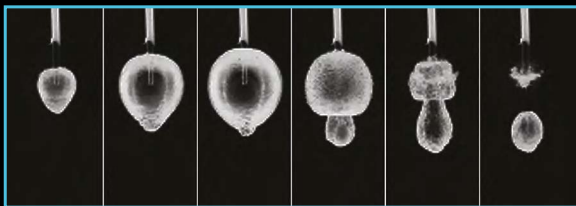
Bubble Dynamics of Vapor Tunnel



Virtual Basket™

Composed of a **Double Pulse Emission**,* the Virtual Basket combines low retropulsion with a fragment suction effect.

*(The time duration separating the two pulses is chosen so that the second pulse is emitted from the distal tip of the fibre when the bubble size, and the corresponding amount of displaced fluid, is at a maximum.)



Bubble Dynamics of Virtual Basket



Advantages of Virtual Basket & Vapor Tunnel



NO EXTRA COSTS

These modes do not need dedicated and more expensive fibres, bringing the aforementioned advantages without extra expenses.



MAGNETIC EFFECT

These modes allow stone ablation while holding the target in place, without inducing stone retropulsion.



EASIER TREATMENT

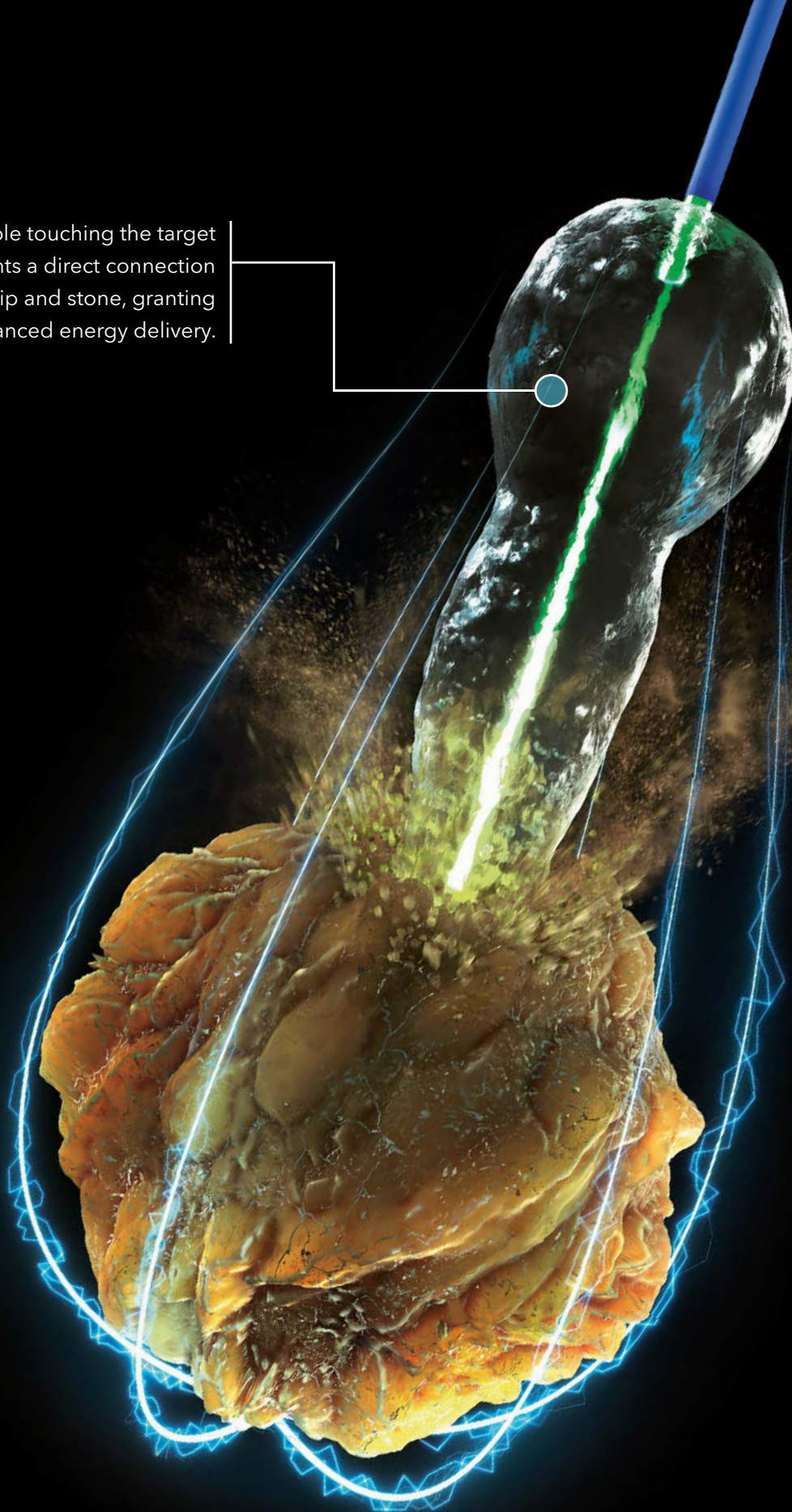
With a more stable target, lithotripsy treatment can proceed easily with fewer hassles.



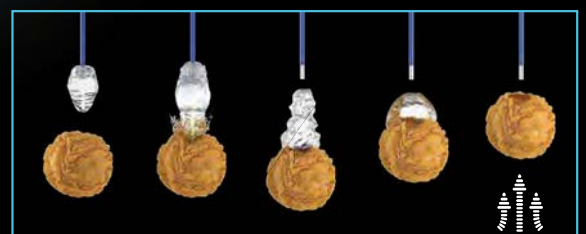
TIME SAVING

Less stone movement limits the time-consuming fibre repositioning, whereas enhanced energy transmission increases the ablation rate.

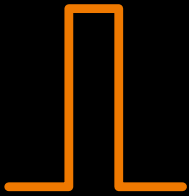
This long bubble touching the target represents a direct connection between fibre tip and stone, granting enhanced energy delivery.



As the pulse ends, the bubble collapses.
The stone is dragged backwards together with the collapsing bubble (like a virtual basket).



Fragmentation



SHORT PULSE
(HIGH ENERGY)



HIGH PULSE ENERGY

Up to 5 J, for wide pulse energy range



TREAT EVEN THE HARDEST STONES

Greater pulse energy allows you to break harder stones.



COLLECTION BASKET NEEDED

Retrieve stone pieces upon fragmentation.

Dusting Effect



LIMITED RETROPULSION

Easy ablation with no need
to chase the stone



NO NEED FOR BASKET

The obtained fine dust obviates
the retrieval phase.



LONG PULSE WIDTH

Up to 1100 μ s, for smooth Long Pulse Dusting

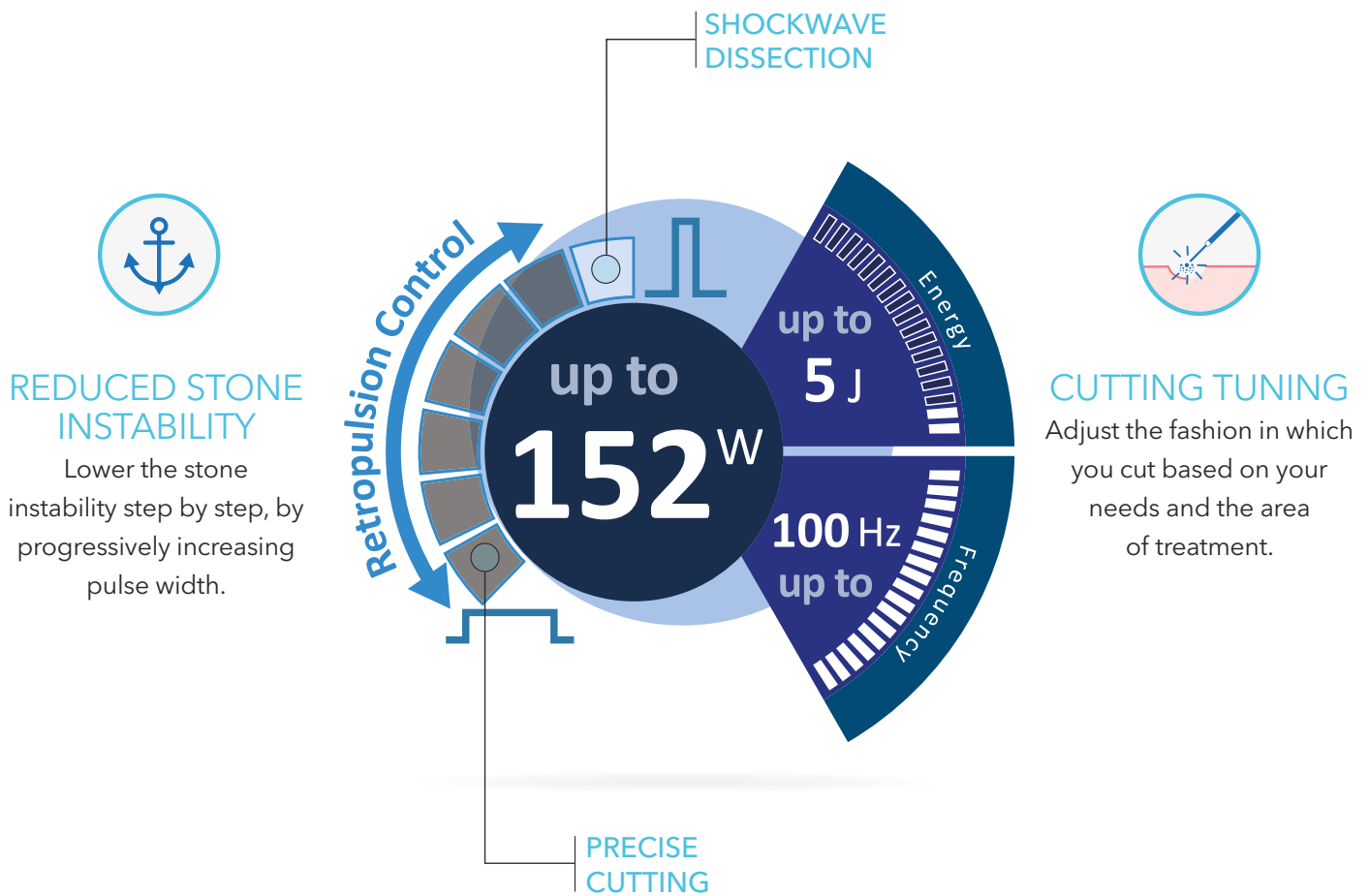


EXTREME FREQUENCY

Up to 100 Hz, for enhanced speed in Dusting action



MasterPULSE



General Benefits

Reduce retropulsion and modify tissue cutting more easily: instead of trying multiple different settings, start with your preferred settings and then adjust the MasterPulse to fine-tune the effect of laser emission based on your visual feedback. Regulation of pulse width has never been so easy!



GREATER FLEXIBILITY

7 levels of pulse width offer a greater flexibility compared to the traditional 3 levels offered by the other holmium devices.



CUTTING DOWN TREATMENT TIME

Obtain the desired effect quickly, without getting frustrated with the standard adjustment of energy and frequency parameters.



EASE OF TREATMENT

Experience a more intuitive and different way to adjust laser settings, simply based on your visual feedback.

User-Friendly Software



GUIDED SELECTION

- BPH
- Lithotripsy
- Soft Tissues

SAVE AND LOAD SETTINGS



Fibres

The **Cyber Ho** device can be operated with a large range of fibres, depending on the application, flexibility and settings required.



STANDARD FIBRES

For general use in stone and soft tissue treatments



BALL-TIP FIBRES

Strongly simplify the insertion in deflected scopes.



SIDE FIBRES

The lateral emission is ideal for side tissue ablation, as in HoLAP.



GASTRO FIBRES

Specifically designed for the fragmentation of gallstones



FIBRE RECOGNITION

The Cyber Ho automatically adjusts emission settings based on the connected fibre's diameter.



AVAILABLE DIAMETERS

200, 272, 365, 550, 600, 800, and 1000 μm



REUSABILITY

All fibres are available in both disposable and reusable options (except ball-tip model and side fibre).



CLEANING

Reusable fibres can be sterilised by Sterrad® and steam sterilisation.
Sterrad is a registered trademark of ASP Global Manufacturing GmbH.

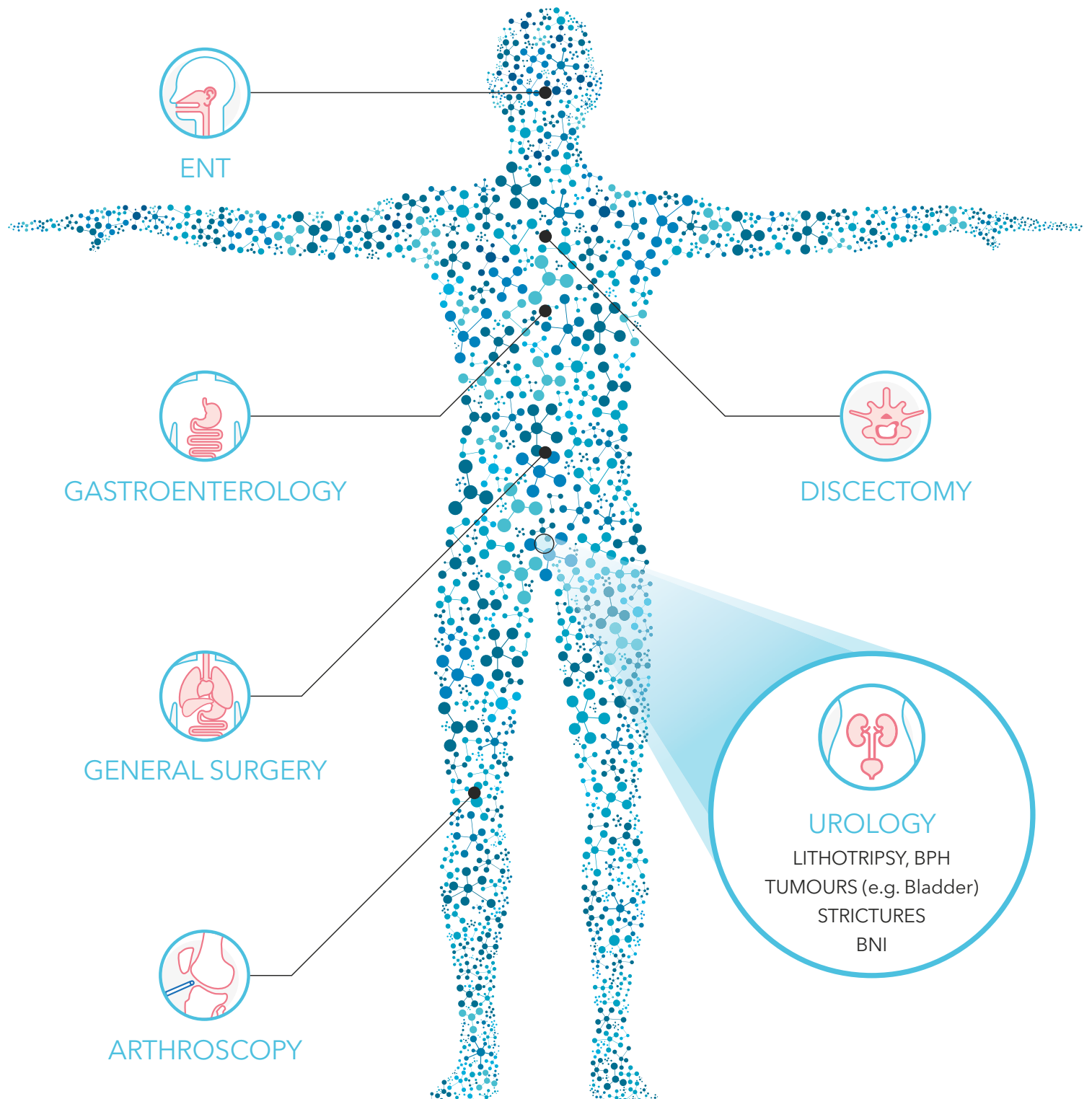


STERILISATION TRAY

A dedicated tray for sterilisation of fibres and tools

Applications

Cyber Ho 150 can be used to perform incision, excision, resection, ablation, vaporisation, coagulation and haemostasis of soft tissue, and in lithotripsy of stones, in various medical specialties, for example:



Technical Specifications

Wavelength	2.1 μm
Average power	Up to 152 W
Repetition rate	Up to 100 Hz
Energy per pulse	Up to 5 J
Pulse duration	50-1100 μs
Beam delivery	Wide range of flexible silica fibres
Aiming beam	532 nm (adjustable <5 mW) - Class 3R
Fibre recognition	RFID System
Activation	Double footswitch
Electrical requirements	220-230 Vac; 50/60 Hz; 7.36 kVA - 208 Vac; 50/60 Hz; 7.36 kVA
Cooling	Internal chiller
Operating temperature	10°C-30°C
Laser class	4
Dimensions and weight	52 cm (W) x 120 cm (D) x 123 cm (H) (monitor closed), 260 kg

This brochure is not intended for the U.S. market.
Certain intended uses, configurations, models, and accessories are not cleared for the U.S.
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VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye or skin exposure to direct or scattered radiation.

Laser product: Class 4

Aiming beam: Class 3R



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

As stipulated in our partnership agreement, Cook Medical is only selling Quanta System lasers and fibres in the United States and the following European countries: Austria, France, Germany, Ireland, Switzerland, and the United Kingdom.

Quanta System products are manufactured according to 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 has belonged to the El. 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 laser and opto-electronic devices.

Quanta System
LASER IN OUR DNA

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