Quanta System Q1
LASER IN OUR DNA

Taking care of people, our masterpieces

Cyber Ho 100

Holmium Laser System

This brochure is not intended for the U.S. market.
Certain Intended Uses/Configurations/Models/Accessories are not cleared for U.S.

SURGERY

Cyber Ho 100

THE REVOLUTION IN HOLMIUM SURGERY

Cyber Ho Holmium laser (2.1 µm) meets the increasing demand of efficacy, flexibility with a unique multi-application laser platform able to perform both **Lithotripsy** and **HoLEP**.
Cyber Ho 100 can reach up to **105 W** power and brings outstanding innovation by offering the exclusive **Vapor Tunnel™** and **MasterPULSE™** technology for advanced retropulsion control. This device further offers impressive settings regarding energy and frequency (up to **80 Hz**).

General Overview

- ✓ BPH Treatment
- ✓ Effective Lithotripsy
- ✓ High Frequency Emission (up to 80 Hz)
- ✓ Minimized Retropulsion
- ✓ Reduced Depth of Penetration (0.3 - 0.4 mm)
- ✓ Soft Tissue Surgery
- ✓ High Versatility
- ✓ Quick ROI

Intuitive GUI

12" Touchscreen

RFID Recognition System

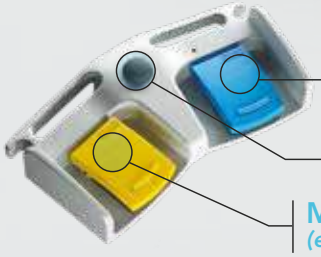
Fiber Connection

Transportation Handle

Automatic Aperture Sensor

Frontal Footswitch Connection

DOUBLE FOOTSWITCH



Mode #2 *(eg. coagulation)*

Ready / Standby Switch

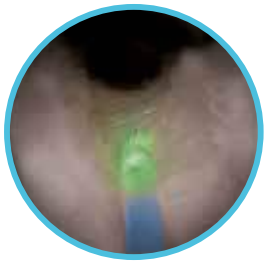
Mode #1 *(eg. cutting)*

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.

BPH

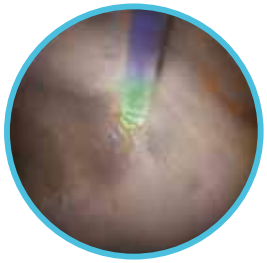
HoLEP (Holmium Laser Enucleation of the Prostate) is a proven technique for the treatment of BPH (Benign Prostatic Hyperplasia), with high effectiveness, safety and durability.
The large amount of literature demonstrates its advantages in terms of efficacy and safety with respect to traditional treatments 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 100 offers full 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.



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 cut without affecting surrounding tissues

RELIABILITY

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

SIZE INDEPENDENT

HoLEP overcomes the limitations affecting other BPH techniques regarding prostate size

EFFECTIVE HEMOSTASIS

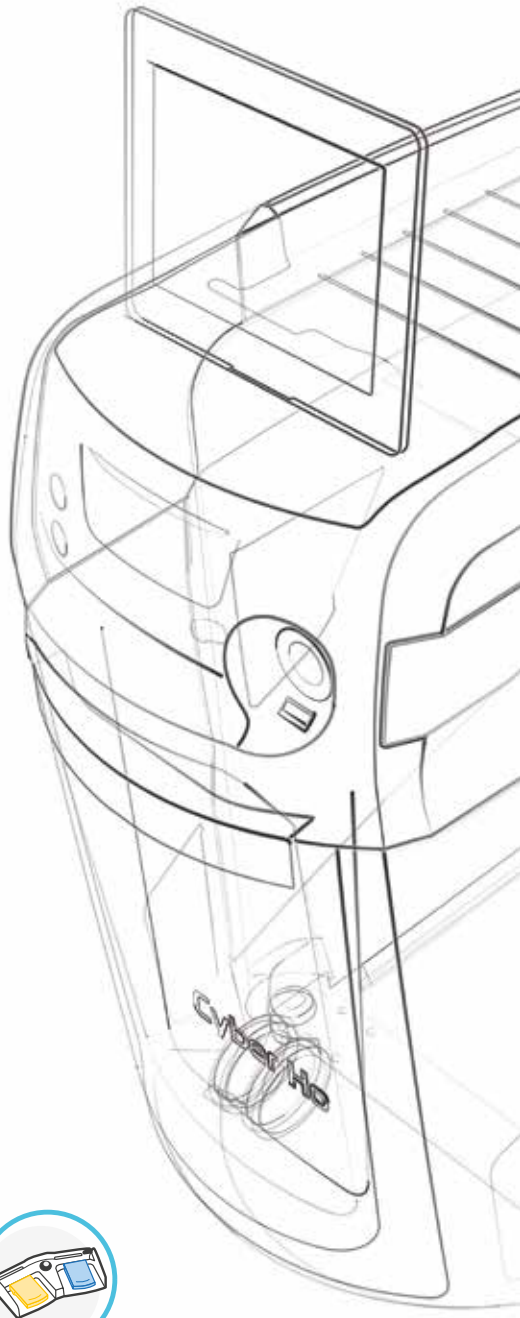
The Holmium radiation is highly absorbed by water, allowing quick coagulation of bleedings

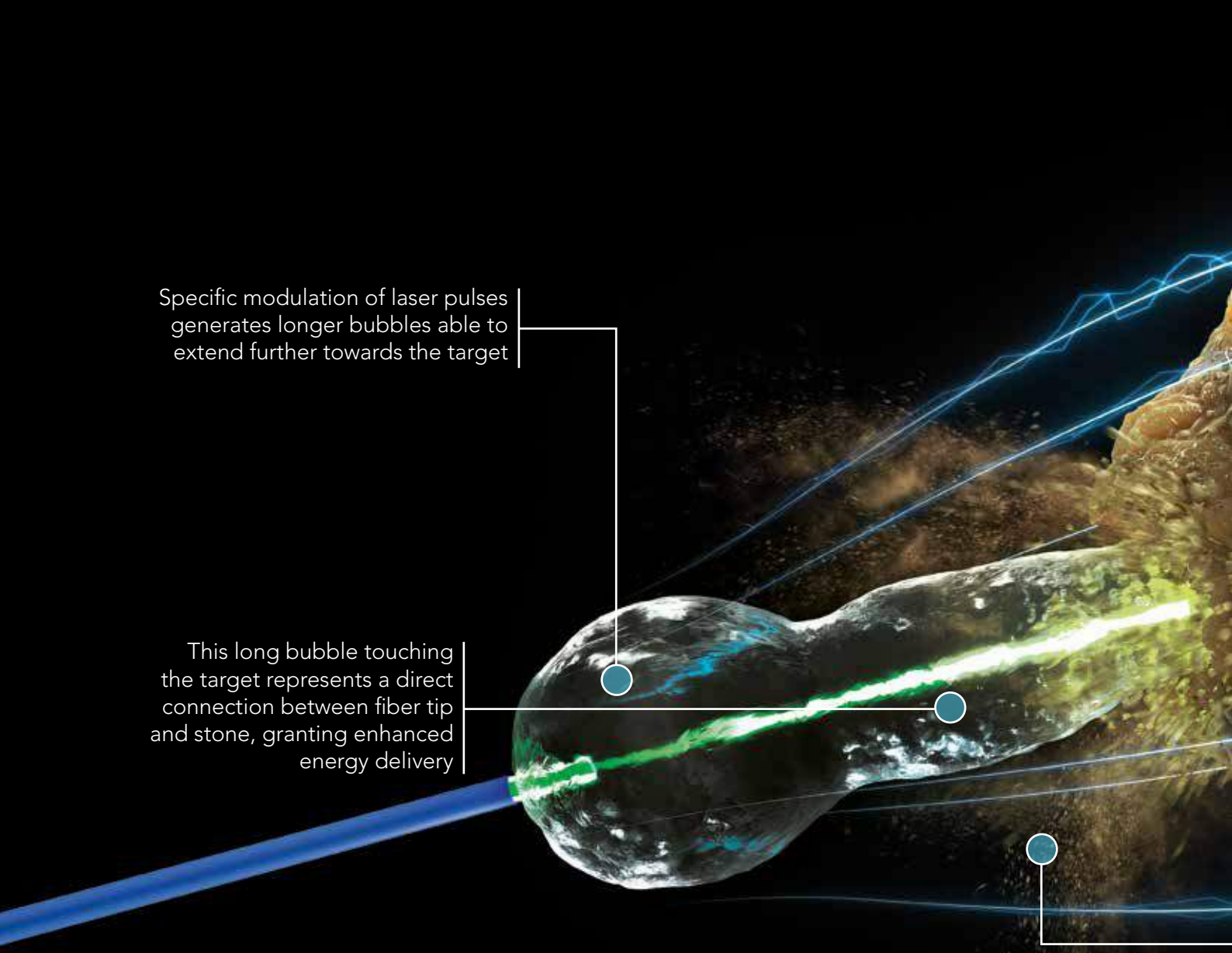
HIGH POWER

Up to 105 W output, for fast and quick incision, cutting down treatment time

DOUBLE FOOTSWITCH

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





MAGNETIC EFFECT

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

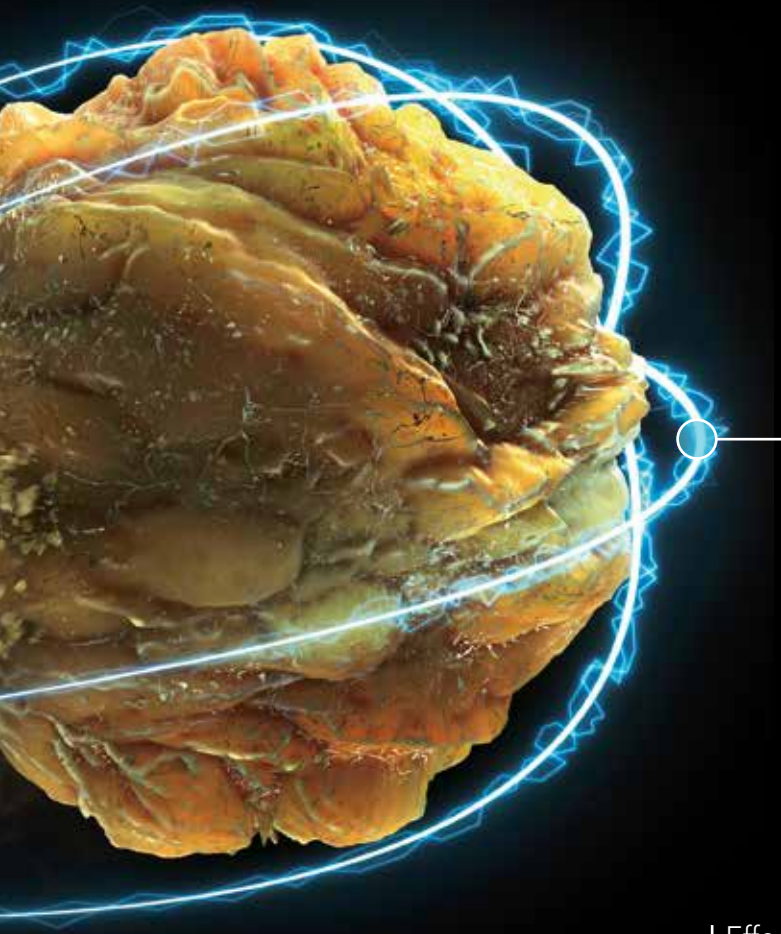
EASIER TREATMENT

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

Vapor Tunnel™

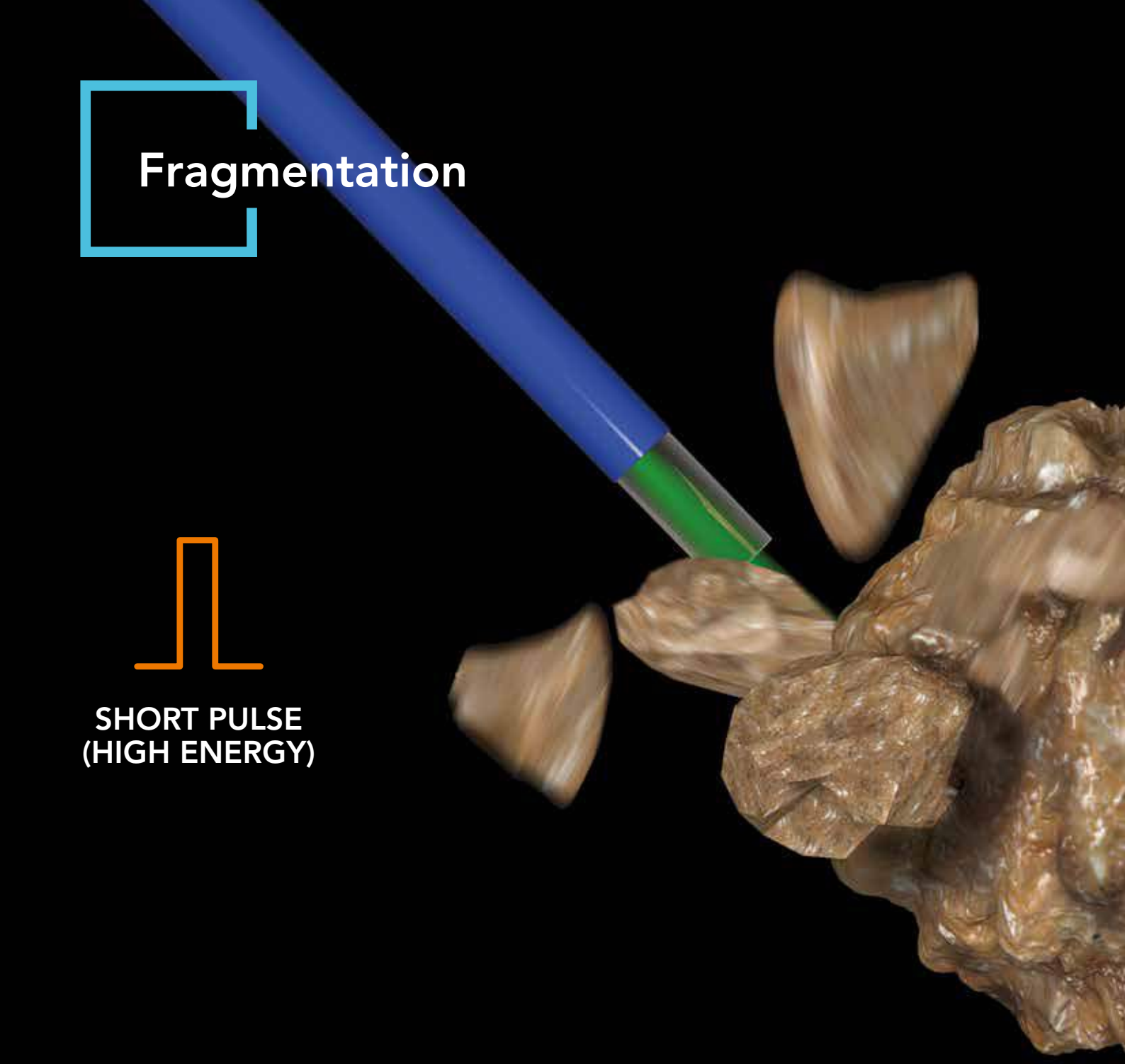


As the pulse ends, the bubble collapses. The stone is dragged backwards together with the collapsing bubble (acting as a **virtual stone basket**)

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

How the *Virtual Basket* works

Fragmentation

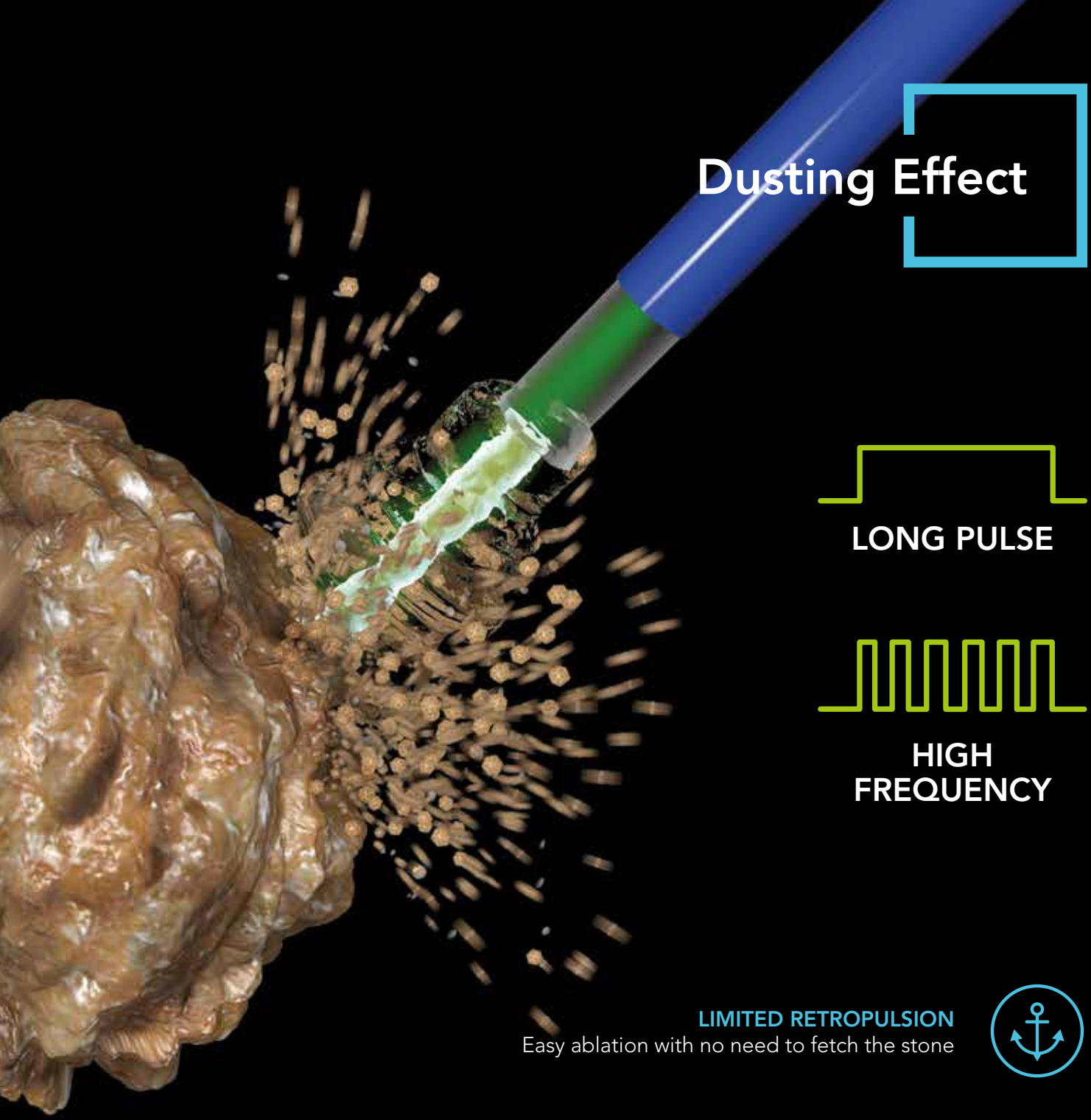


SHORT PULSE
(HIGH ENERGY)

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

HIGH FREQUENCY

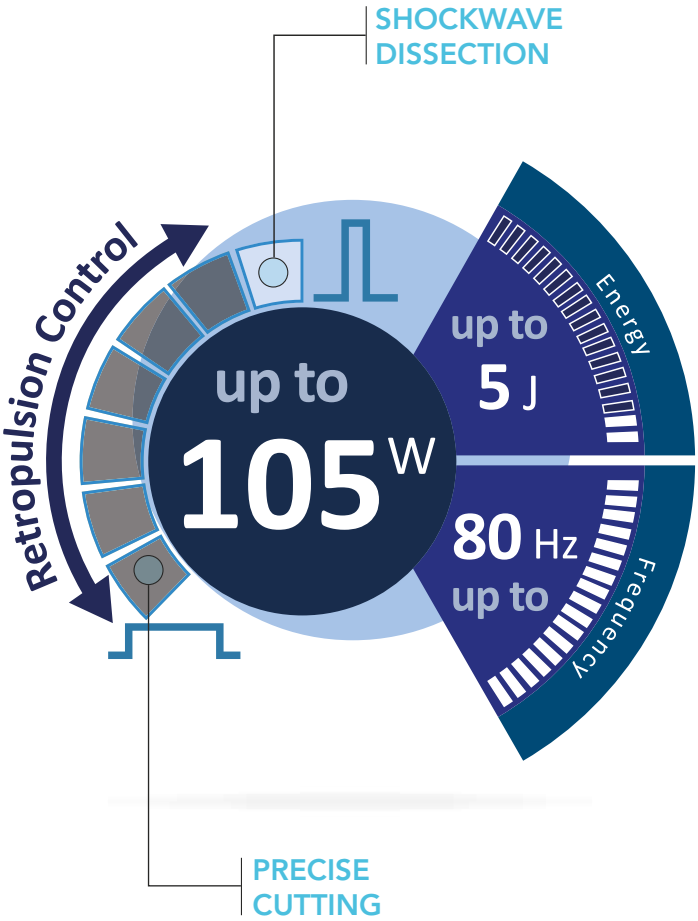
LIMITED RETROPULSION
Easy ablation with no need to fetch the stone

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

EXTREME FREQUENCY
Up to 80 Hz, for the best *High Frequency Dusting* in its class

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

MasterPULSE™



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

CUTTING TUNING
Adjust cutting fashion based on your needs and the area of treatment

General Benefits

Reducing retropulsion and modifying 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!

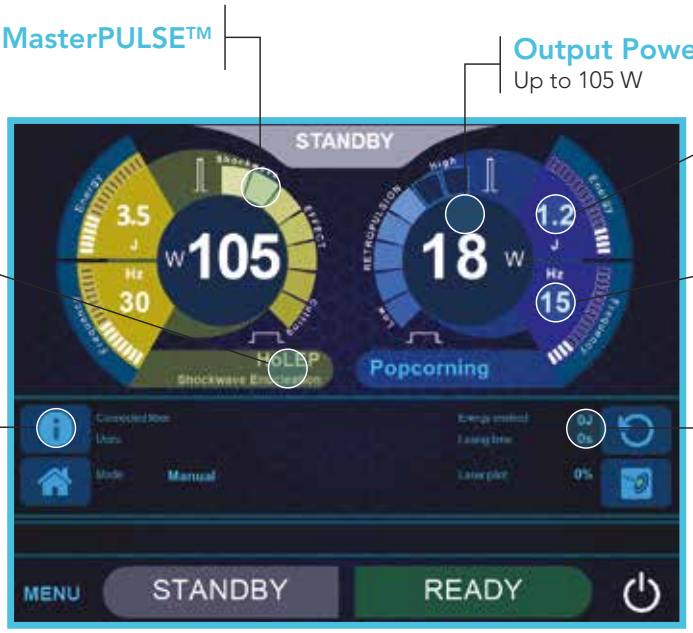
7

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

CUTTING DOWN TREATMENT TIME
Obtain the desired effect quickly, without getting mad 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 OF SETTINGS

Fibers

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

JACKET
Helps in recognizing fiber position and improves probe stiffness

CLADDING
Mantains radiation energy within the core

FIBER CORE
Delivers full energy to the target

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

FIBER RECOGNITION
Cyber Ho automatically adjusts emission settings based on the connected fiber diameter

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

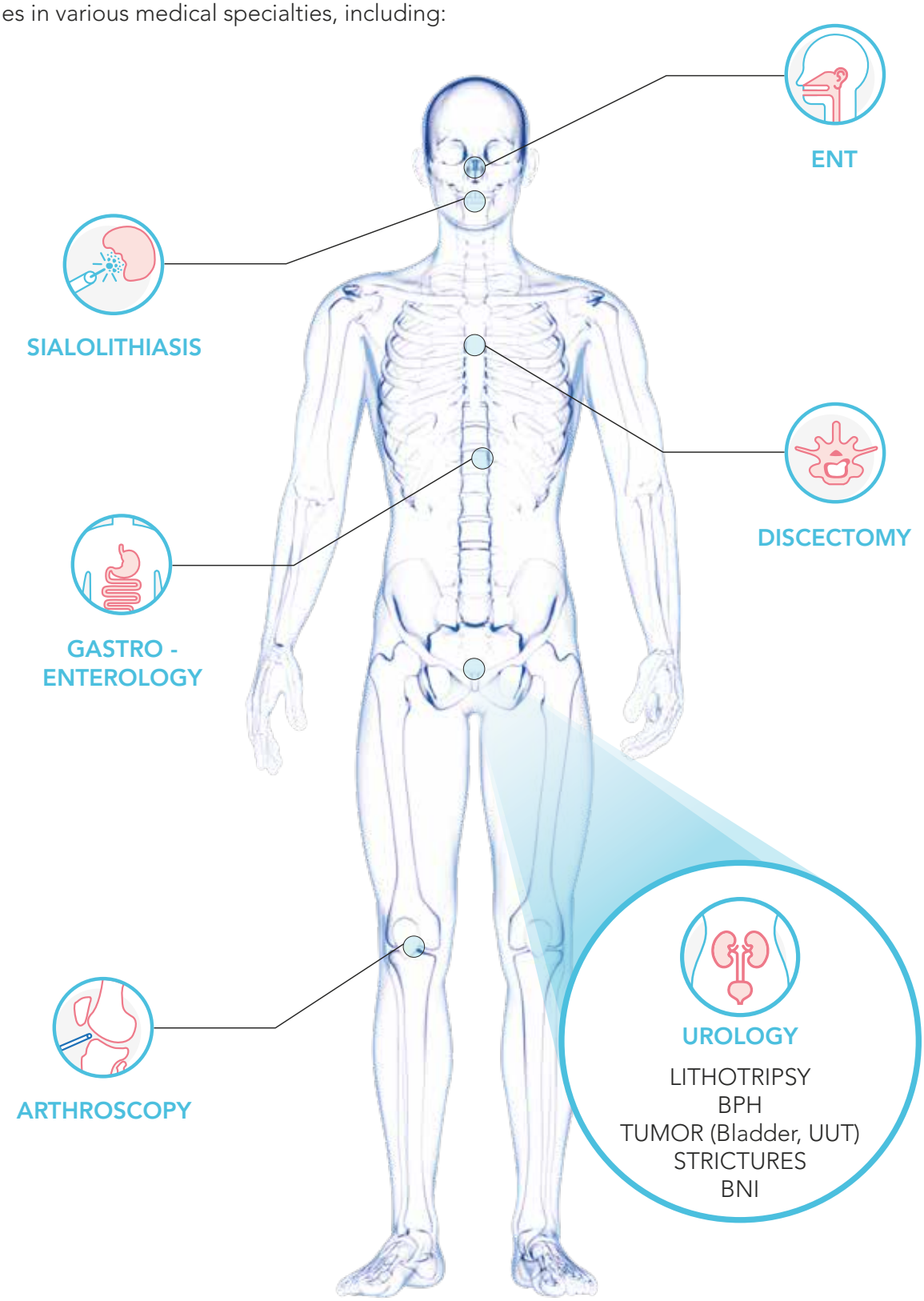
Reusable fibers can be sterilized by Sterrad® and steam sterilization

STERILIZATION TRAY

A dedicated tray for sterilization of fibers and tools

Applications

Cyber Ho 100 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:



Technical Specifications

Wavelength	2,1 µm
Average power	Up to 105 W
Repetition rate	Up to 80 Hz
Energy per pulse	Up to 5 J
Pulse duration	50 ÷ 1100 µs
Beam delivery	Wide range of flexible silica fibers
Aiming beam	532 nm (adjustable <5 mW) - Class 3R
Fiber recognition	RFID System
Activation	Double footswitch
Electrical requirements	230 Vac; 50/60 Hz; 6.2 kVA - 208 Vac; 50/60 Hz; 6.2 kVA
Cooling	Internal chiller
Operating temperature	10°C ÷ 30°C
Laser class	4 (IEC/EN 60825-1:2014)
Dimensions and weigth	52 cm (W) x 120 cm (D) x 123 cm (H) (monitor closed), 230 kg

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

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.

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.

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