

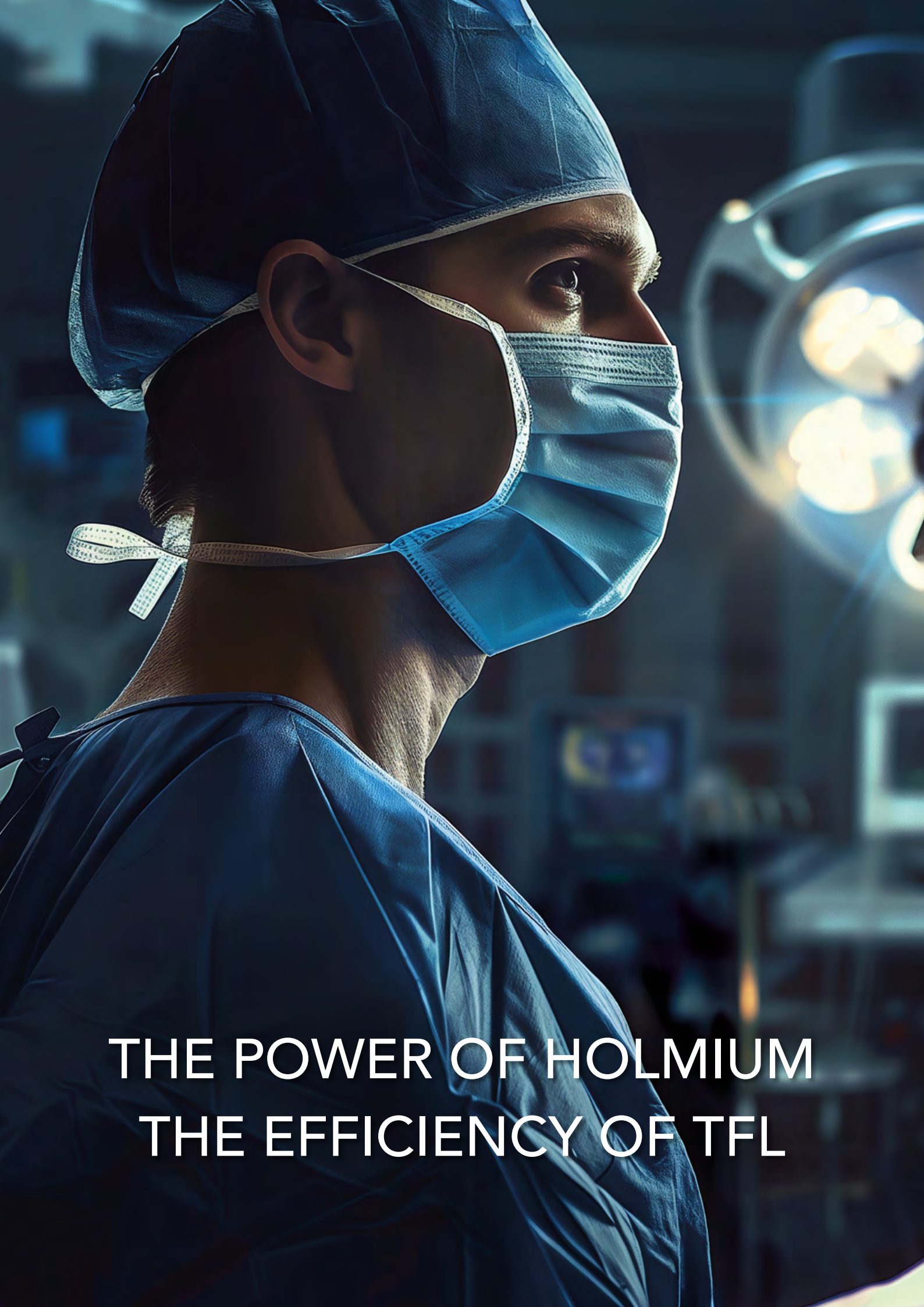
CYBER·HO

Quanta System

Q U A N T A
(((MACNETO)))
T E C H N O L O G Y

CYBER·HO

HOLMIUM LASER



THE POWER OF HOLMIUM
THE EFFICIENCY OF TFL

Quanta System



Cyber Ho with **Quanta Magneto Technology** is the latest breakthrough in urology, featuring an **exclusive emission mode** that combines **the power of Holmium and the efficiency of the TFL¹**, in an "all-in-one" laser system. This innovation offers outstanding flexibility, enabling surgeons to safely meet all their daily challenges.



EXPERIENCE-DRIVEN INNOVATION

Quanta System is always committed to expanding the boundaries and facing the daily challenges of urological surgery.



ENHANCED PULSE EMISSION TECHNOLOGIES

Quanta Magneto Technology enriches and fulfills the available pulse modulations of the Cyber Ho family, for extreme stone and soft tissue management.



ALL-IN-ONE DEVICE

Cyber Ho with Quanta Magneto Technology is an exclusive, full-featured Holmium system with the highest versatility and superior performance for endourology applications.



WIDE RANGE OF FIBERS HIGH COMPATIBILITY

All the benefits of Quanta fibers with no extra costs.

Experience-Driven Innovation

Quanta System stands out in the field of urological surgery with a diverse laser portfolio, that includes advanced technologies such as Holmium lasers (low and high power up to 150 W), Thulium YAG lasers (up to 200 W), Diode lasers, and the Thulium Fiber Laser (TFL). **With 40 years of experience in designing and manufacturing laser devices**, Quanta is committed to pushing boundaries and meeting the everevolving needs of medical professionals.

INNOVATION IS OUR GOAL

Quanta Magneto Technology is an exclusive emission mode that stands as an **implementation of the standard Holmium:YAG laser**, an extension of the Cyber Ho family. Thanks to Magneto Technology, Cyber Ho can now reach a **peak power of 500 W**, enlarging its pulse duration and providing **performance comparable to TFL**¹.

HIGHEST VERSATILITY

With the cutting-edge Magneto Technology, surgeons can now select the **laser system that truly suits their surgical style**, offering enhanced versatility, full customization, and achieving **superior performance** in all their endourological procedures.

SCAN QR-CODE TO WATCH QUANTA
MAGNETO TECHNOLOGY IN ACTION

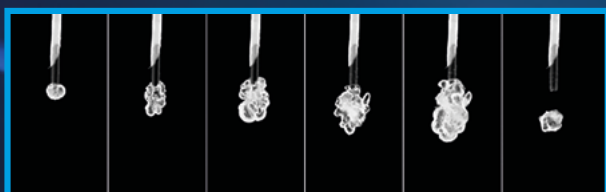


Enhanced Pulse Emission Technologies in Lithotripsy

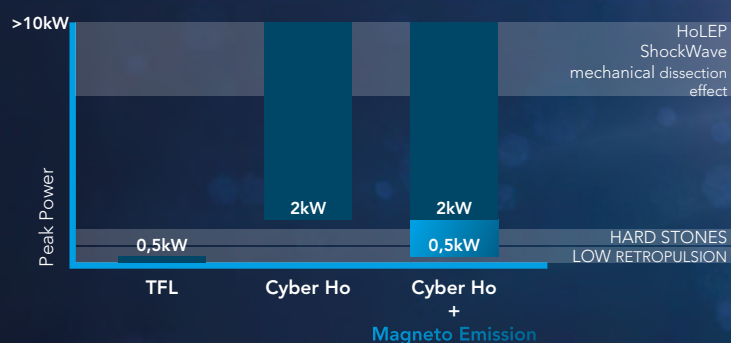
Quanta Magneto Technology

By achieving lower peak power levels, stone retropulsion is significantly reduced compared to standard Holmium laser systems¹ and even to TFL systems².

The direct connection between the fiber tip and the stone enhances energy delivery. Furthermore, Magneto emission mode reduces fragment size, making extraction easier and minimizing the need for additional tools such as retrieval baskets³.

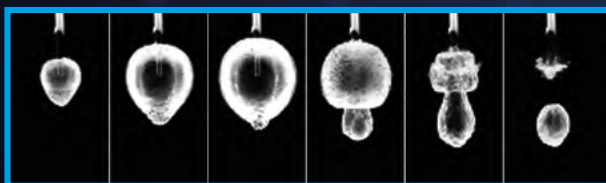


Bubble dynamics frames in Quanta Magneto Technology emission



Virtual Basket®

The Virtual Basket® is a double-pulse modulation technique, integrated into the Cyber Ho laser devices, reaching high power levels (up to 152 W) and a high repetition rate of up to 100 Hz. In lithotripsy, it allows for low retropulsion with a fragment suction effect. A great tool when higher power is necessary to obtain dusting in harder or larger stones or when using a non-contact approach technique.

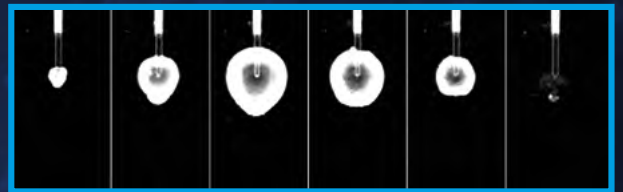


Bubble dynamics frames in Virtual Basket emission

(The time duration separating the two pulses is selected so that the second pulse is emitted from the distal tip of the fiber when the bubble size, and the corresponding amount of displaced fluid, reach their maximum.)

High Peak Power Pulse

A Single Short Pulse that allows fragmentation and popcorning appreciated also in PCNL procedures.



Bubble dynamics frames in High Peak Power Standard emission



¹ Data available in Internal Report
"MAR20240505 - Cyber Ho Magneto: Retropulsion evaluation".

² Up to 50% mesured at 0.2 J-50 Hz Data available in Internal Report
"MAR20240505 - Cyber Ho Magneto: Retropulsion evaluation".

³ Perri D, et al. Mini-percutaneous nephrolithotomy using the new Cyber ho generator with Magneto technology: the first clinical experience in the treatment of renal stones between 10 and 20 mm. *Minerva Urol Nephrol* 2024;76:000-000. doi: 10.23736/S2724-6051.24.06286-4).

Enhanced Pulse Emission Technologies in BPH Management

Application of Emission Mode Lasers in the HoLEP Technique

The Holmium Laser Enucleation of the Prostate (HoLEP) technique employs advanced laser technologies to **enhance surgical outcomes in the treatment of BPH**.

Among the key innovations there are advanced pulse modulated laser technologies, that **improve surgical efficacy and safety** through targeted delivery, maximizing laser ablation effectiveness, tissue dissection of the adenoma, and haemostatic tissue interaction⁴.

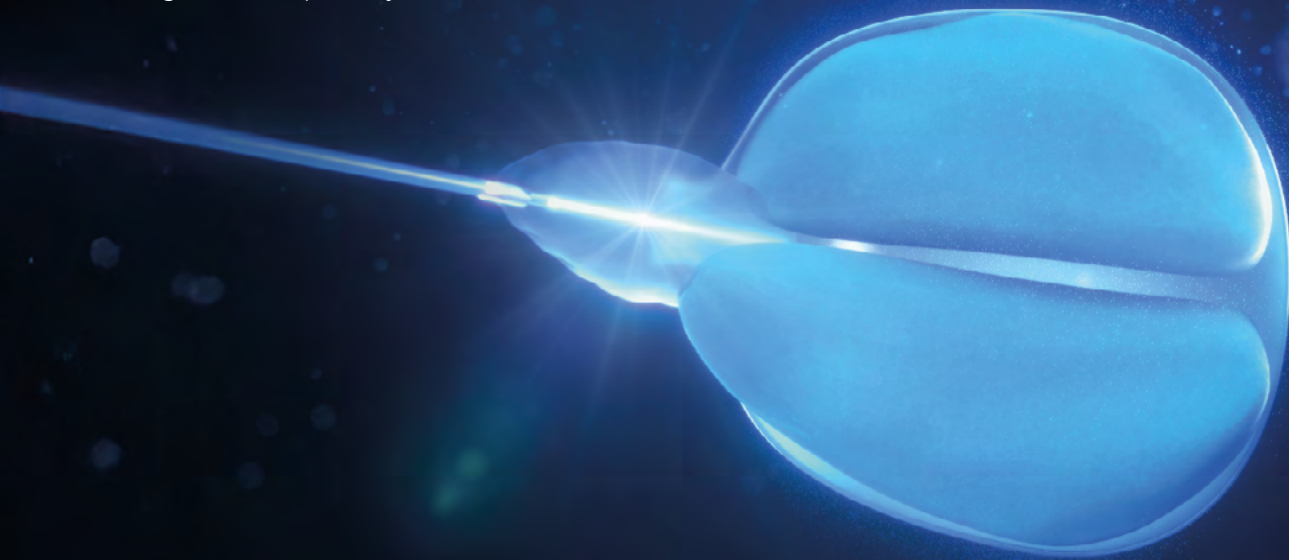
Quanta Magneto Technology

When applied to soft tissues, this advanced emission mode with extended pulse duration make it particularly suitable for procedures requiring enhanced haemostatic action⁵.

Virtual Basket®

This advanced pulse modulation improves both cutting efficiency and haemostasis in the HoLEP technique.

Virtual Basket® in the enucleation procedure, compared with conventional HoLEP, results in faster operative time and less haemoglobin decrease, due to a better coagulation capability⁶.

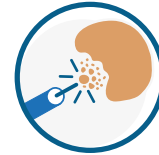


⁴ Dean NS, Thiruchelvam J, Guo JN, Durrant J, Krambeck AE, Aho TF. Advances in HoLEP technology and technique Current state of play. *Journal of Clinical Urology*. 2024;17(2_suppl):7-13. doi:10.1177/20514158241242961.

⁵ Perri, D., Besana, U., Mazzoleni, F. et al. "Holmium: YAG laser enucleation of the prostate using the new Cyber Ho generator with Magneto technology: does it provide any advantages compared to Thulium: YAG prostate enucleation?" *World J Urol* 43,161 (2025), <https://doi.org/10.1007/s00345-025-05536-1>.

⁶ Bozzini G. et al, "Holmium laser enucleation of the prostate with Virtual Basket mode: faster and better control on bleeding", *BMC Urol* - . 2021 Feb 23;21(1):28 doi: 10.1186/s12894-021-00797-5.2. Socarrás MR, Del Álamo JF, Sancha FG. "Long Live Holmium!", *Eur Urol Open Sci*. 2022 Dec 20;48:28-30. doi: 10.1016/j.euros.2022.07.012. PMID: 36588773; PMCID: PMC9795518.

All-in-one Device

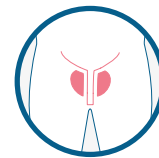


LITHOTRIPSY

Lithotripsy has never been so complete.

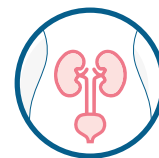
Surgeons can choose among multiple techniques, achieving the **dusting and low retropulsion** of TFL thanks to Magneto

Technology, while obtaining the best **fragmentation** and **popcorning** with the power of Holmium.



BPH MANAGEMENT

Multiple emission modes dedicated to performing treatments with **precise tissue dissection, minimal bleeding, and excellent coagulation capability⁵**, improving patient recovery and outcomes.



OTHER SOFT TISSUES

The Cyber Ho with Quanta Magneto Technology emission allows defined and smooth **ablation, resection, and incision** in all the soft tissue applications where the precision of cutting and coagulation are necessary.



Wide Range of Fibers High Compatibility

Cyber Ho with **Quanta Magneto Technology** can be used with a large range of fibers (**200, 272, 365, 550, 800 and 1000 μm**), depending on the application and settings required. This mode does not require dedicated or more expensive fibers, so it offers the above benefits at no extra cost. All fibers are available both as **disposable** and **reusable** (except ball tip) and **they are compatible with other Quanta System devices**.



STANDARD FIBERS

(Single Use and Reusable)
For general use in stone Lithotripsy
and Soft Tissue treatments



BALL TIP FIBERS

Strongly simplify the insertion in
already bent scopes



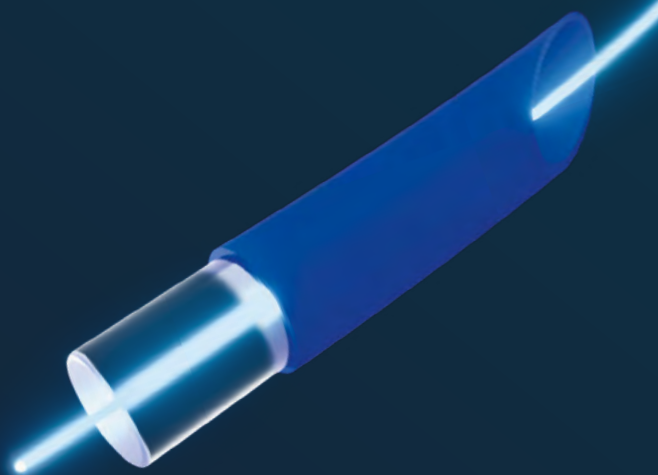
200 μm FIBER

This thinner fiber grants even
greater flexibility and irrigation



GASTRO FIBERS

Specifically designed for the
fragmentation of gallstones



CLEANING

Reusable fibers can be sterilized with
the standard steam sterilization



SURGICAL TRAY

A dedicated tray for sterilization of
fibers and tools

Technical Specifications

	Magneto 100W	Magneto 150W
Wavelength	2100 nm	
Average power	105 W	152 W
Repetition rate	3 - 80 Hz	5 - 100 Hz
Energy per pulse	5 J	
Pulse duration	50-2000 µs	
Beam delivery	Optical fiber	
Aiming beam	532 nm	
Fiber recognition	RFID system	
Activation	Double footswitch	
Electrical requirements	230 Vac; 50/60Hz; 6.2 kVA 208 Vac; 50/60Hz; 6.2 kVA	208 Vac; 50/60 Hz; 7,3 kVA 200 Vac; 50/60 Hz; 7,3 kVA 230 Vac; 50/60 Hz; 7,3 kVA
Cooling	Internal chiller	
Operating temperature	10°C - 30°C	
Laser class	Class 4	
Dimensions	64 cm (W) x 120 cm (D) x 123 cm (H) (monitor closed)	
Weight	230 kg	260 kg



SCAN ME FOR ALL
QUANTA REFERENCES LIST

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

DANGER - VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye or 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 table above, or may limit or remove certain intended uses. Specifications are subject to change without notice.



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