

Taking care of people, our masterpieces

Thunder MT

Ultimate Power for Your Practice



THUNDER MT

ULTIMATE POWER FOR YOUR PRACTICE

Cutting edge device offering up to two laser wavelengths, 755 nm and 1064 nm, in single or combined emission by **the proprietary Mixed Technology**. This combination represents right now the new Gold Standard for **hair removal**, **dermatological vascular lesions** and **skin rejuvenation treatments**. With the proven, effective and safe Mixed Technology the overcoming of traditional practices is now a reality.

THUNDER MT'S ADVANTAGES

MIXED TECHNOLOGY

Two wavelengths in **Gold Standard** Mixed emission for treatments tailored to any need

FASTEST ROI

A device that allows a very fast **Return On Investment** thanks to its power and unique features on the market to achieve all patient needs

RELIABILITY

Designed by **Quanta System** with more than **30 years** in **medical laser experience** for the best reliability even under the most intense use

VERSATILITY

A great number of **personalized treatments** for **all skin conditions** performing Permanent Hair Reduction*, Vascular Treatments and Skin Rejuvenation

Optimized™ SPOT SHAPE

A **new spot designed** to overcome the limits of the traditional spot shapes related to the overlapping for the safest and most efficient treatments ever

PATIENT SATISFACTION

The greatest patient **satisfaction** for the maximum treatment result and efficacy in safety and comfort

AutoMotion™ TECHNOLOGY

An extremely innovative feature able to guarantee the **minimal discomfort** sensations

OPTIONALS

A real tailored Mixed Technology with multiple wavelengths and optionals among which the **OptiScan TH** and the **Qool-air** cooling system can absolutely offer the best practices



PIONEERING TECHNOLOGY

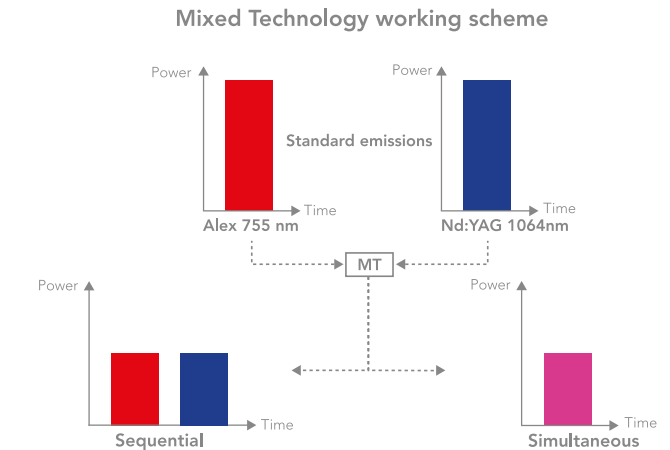
Advanced device with powerful laser sources, the proprietary **Mixed Technology**, the incredible speed of the new **OptiScan TH** and the **Optimized™** spot shape

* Permanent hair reduction is defined as the long-term stable reduction in the number of hairs regrowing when measured at 6, 9, and 12 months after the completion of a treatment regimen.

MIXED TECHNOLOGY

The **Mixed Technology** performs the largest range of hair removal applications, as well as vascular and rejuvenation treatments.

Due to the proprietary Mixed Technology, the **Thunder MT** allows the operator to select easily single or double wavelength emissions, using simultaneous or sequential pulses that can be adjusted according to the patient's needs.



The **Simultaneous Emission** has been developed for **Permanent Hair Reduction**. The Mixed Technology combines **two different laser wavelengths** in a **single emission** with programmable fluence and pulse duration. The synergy of the two wavelengths is able to completely denature the hair follicles with improved safety even in dark skin conditions thanks to the reduced fluences requested. Under these conditions, epidermal temperature results reduced with improved safety and effectiveness.



The **Sequential Emission** has been developed for **Vascular Treatments** and **Skin Rejuvenation**.

The **Vascular treatment** for the removal of facial and leg telangiectasia uses the Mixed Technology to guarantee a best result using the lowest fluences taking advantage of the different absorption of hemoglobin and methemoglobin.

The **Skin Rejuvenation** optimizes the effect Alexandrite has on pigmentations and that one Nd:YAG has on **skin tightening** just in one session with a significant decrease of session times.

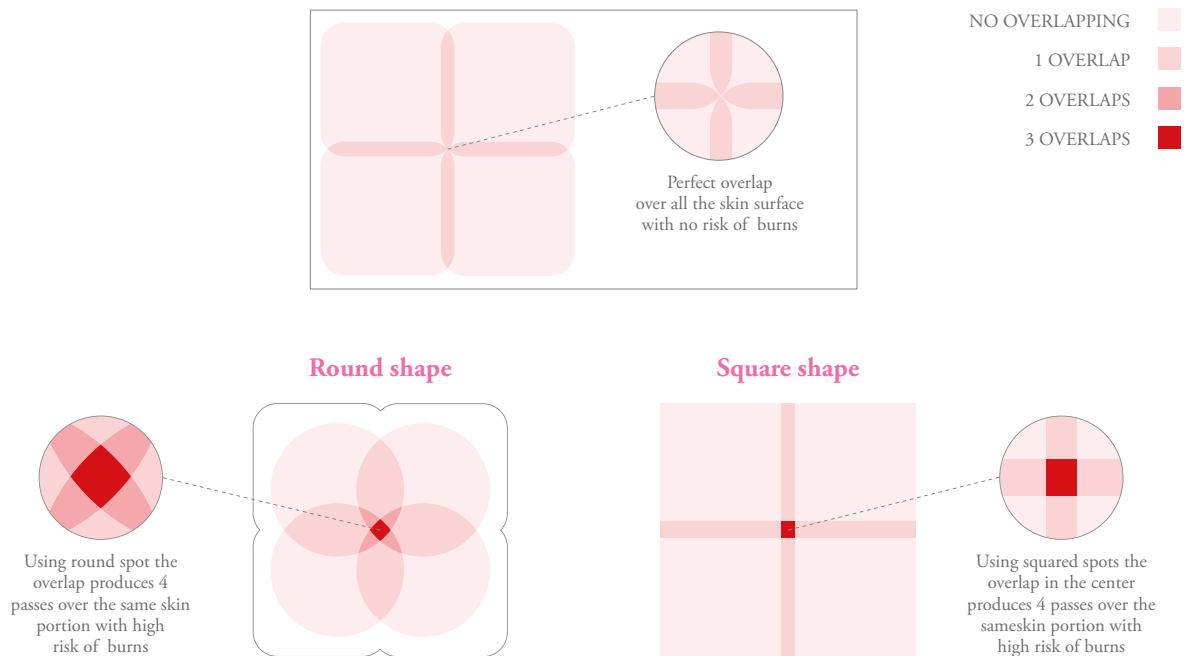


Optimized™ SPOT SHAPE

OVERCOMING THE TRADITIONAL SPOT SHAPES' LIMITS

The Optimized™ spot shape has been designed to guarantee incredible results in all practices with an even minimal overlapping. The Quanta System's industry-leading shape with its reduced and controlled overlapping permits to perform treatments with total safety and effectiveness. The Optimized™ spot allows the **exact overlap on all skin surface** instead of 4 passes for the Square and Round shapes.

The Optimized™ spot covers a skin area similar to the square spot and a bigger skin area compared to the round spot. This focused comparison shows the skin burn risk for each spot shape.



SKIN CRYO

An adapter that integrates the optics of pulsed laser with Zimmer air cooling. This adapter ensures a great pain reduction when treating large areas or harder hairs. It is possible, with this configuration, to have fix or zoom handpieces (for vascular treatments) with the Optimized™ spot shape.



EMBEDDED QOOL-AIR

The maximum patient comfort is now reachable with the optional air cooling system, powered by Zimmer, embedded in the Thunder MT.

- Fully controlled by the laser device
- Movable with the Thunder MT
- No more waste of room space



OPTISCAN TH

(optional)

The new scanner **OptiScan TH** gives the most complete features of versatility with multiple configurations tailored to patient's needs and skin conditions. This scanner automatically delivers laser energy homogeneously on really wide areas to shorten treatment time avoiding accidental pulse overlapping.

All the personalized treatment configuration such as areas, overlap, scanning modes and the Ready/Standby State of the laser can be directly set from its **integrated** touch screen.

MAIN FEATURES:

- Scanning modes developed to be tailored to treatment with different configurations for:
 1. managing the heat inside the scanning area to prevent its accumulation
 2. providing a tail-like heat propagation for the maximum patient comfort
 3. ensuring a homogeneous energy distribution for the best treatment results
 - Optimized™ spot for the best treatment performance
 - The best shapes of area for every kind of skin lesion
 - Overlapping grade to be set for the highest treatment precision
 - A maximum frequency of **15 Hz** for a maximum covered skin area of **30 cm²** in just one scan. **Full back treatments in less than 10 minutes are now finally possible**
 - **Skin cooling system integrated** for the highest comfort during treatments
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AutoMotion™ TECHNOLOGY FOR LOW PAIN TREATMENTS

Absolute reliability on personalized and automatic treatments with the new AutoMotion™ technology for Hair Removal.

The maximum patient comfort thanks to low pain treatments is now secured by **lower fluences** and **higher repetition rates** treatments together with the integrated skin cooling system. The OptiScan TH permits to bring added value with personalized patterns and treatment areas in automatic shots for a perfect treatment homogeneity. Hair removal had never been such satisfactory.

RESULTS
BEFORE / AFTER



PERMANENT HAIR REDUCTION
Courtesy Paolo Sbano MD



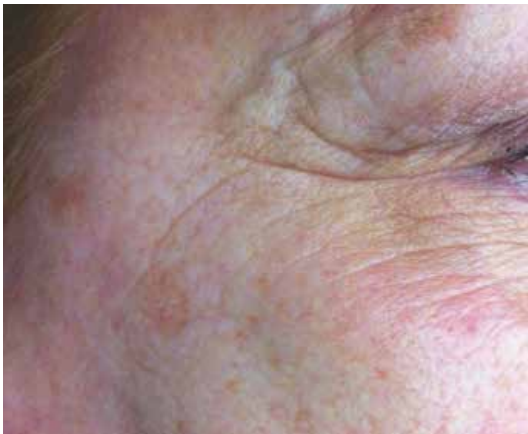
PERMANENT HAIR REDUCTION
Courtesy Paolo Sbano MD



PERMANENT HAIR REDUCTION
Courtesy Paolo Sbano MD



DERMATOLOGICAL VASCULAR LESIONS
Courtesy Paolo Sbano MD



SKIN REJUVENATION
Courtesy Paolo Sbano MD

TECHNICAL SPECIFICATIONS

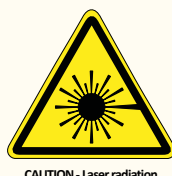
Laser		Nd:YAG Pulsed	Alexandrite Pulsed	Nd:YAG + Alexandrite Pulsed
Wavelength	(nm)	1064	755	1064 + 755
Pulse width	(ms)	0.3 ÷ 300	0.3 ÷ 300	0.3 ÷ 300
Fluence	(J/cm ²)	up to 500	up to 500	see single sources
Repetition rate	(Hz)	up to 10	up to 10	up to 7
Repetition rate OptiScan TH	(Hz)	up to 15	up to 15	up to 10
Available spot sizes (all optional)	(mm)	2 ÷ 24 with handpieces; 9 mm with OptiScan TH		
Beam delivery		optical fiber with detachable handpiece or OptiScan TH		
Skin Cooling system		air cooling handpiece adaptor; Qool-air (optional)		
Electrical requirements		200-240 Vac; 50/60 Hz; 6 kVA		
Dimensions and weight		652 mm (W) x 935 mm (D) x 1124 mm (H); 180 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 EN ISO 9001:2008 and EN ISO 13485:2012 certified. Quanta System S.p.A. was founded in 1985 and belongs to the E.I. 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.

