

*Taking care of people, our masterpieces*

# Asset

Extremely Powerful and Compact Nd:YAG Q-Switched Laser





## ASSET

### EXTREMELY POWERFUL AND COMPACT Nd:YAG Q-SWITCHED LASER

The **Asset** laser system consists of the laser source emitting at both **Q-Switched 1064 nm** and **532 nm**. The **optional free running** functioning mode is also available, making this system one with great performance and flexibility.

Q-Switched 1064 nm is very effective for removal of the black and dark blue tattoo colors and both epidermal and dermal benign pigmented lesion.

Q-Switched 532 nm is most effective for red, yellow and orange tattoo color removal and epidermal benign pigmented lesion removal.

The system can be also equipped with an integrated Twain connector, which makes the device usable with the optional **Twain IPL** handpiece.

## THE Q-SWITCHED MODE

This modality delivers extremely short laser pulses, each one of just 6ns, able to produce the very high optical peak power (hundreds of Megawatts) needed to enable an efficient photoacoustic effect and to cancel skin heating effect.

As a result, the unwanted pigments are fragmented in small particles and subsequently removed by phagocytosis.

## OPTIONS

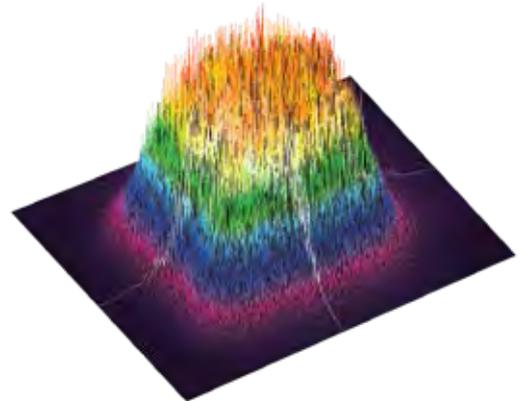
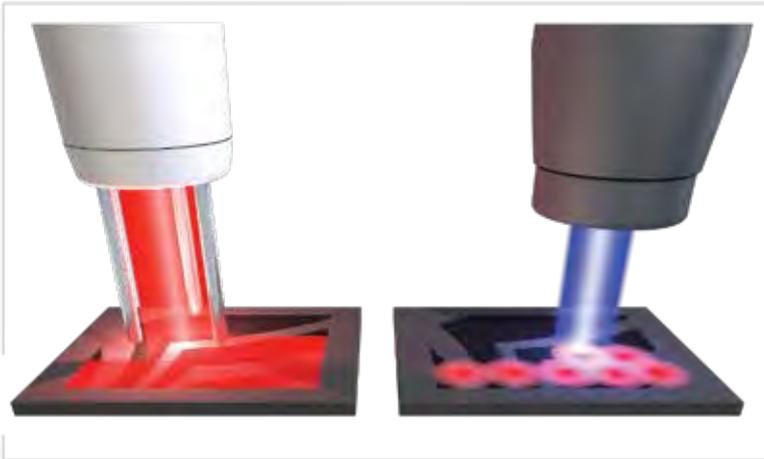
### FR Mode (Free Running Mode)

**Asset** is able to treat the skin producing also a thermal interaction through the FR Mode. With this Mode, the Nd:YAG 1064 nm laser can deliver pulses with duration of 0.3 ms at very high repetition rates, to perform quick and effective treatments of all the skin types.



*IPL handpiece*

## FLAT TOP OPTIBEAM TECHNOLOGY



*Flat-Top laser energy distribution over the spot size by OptiBeam*



The laser beam profile must be as much homogeneous as possible, otherwise longer healing time and side effects can occur.

The extremely high laser peak power of these devices (more than 160 MW) is delivered on the skin without any “hot points” in the spot size.

OPTIBEAM® handpieces assure a flat top beam profile due to its advanced optical technology, able to distribute the laser power homogeneously all over the spot size.

The OPTIBEAM® has a squared beam profile that helps the operator during the procedures due to the minimally divergence:

easier and more precise overlap of the pulses

the reduced treatment downtime in tattoo removal compared to convergent beam profile with Gaussian energy distribution of traditional handpieces

RESULTS  
BEFORE / AFTER



TATTOO REMOVAL - 7 TREATMENTS  
*Courtesy Nicola Zerbinati MD*



TATTOO REMOVAL - 5 TREATMENTS  
*Courtesy Matteo Tretti Clementoni MD*



OTA NEVUS - 4 TREATMENTS  
*Courtesy Galimberti MD*



SKIN REJUVENATION - 4 TREATMENTS  
*Courtesy Dhami MD*

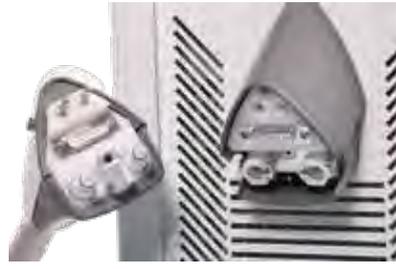


PIGMENTED LESIONS - 1 TREATMENT  
*Courtesy Matteo Tretti Clementoni MD*



PIGMENTED LESIONS - 1 TREATMENT  
*Courtesy Paolo Sbano MD*

## OPTIONAL ACCESSORIES



### TWAIN CONNECTOR

Asset can be equipped with the optional Twain connector for Twain IPL handpieces.



### TWAIN IPL

Asset, through the special Twain universal connector, can be equipped with an IPL handpiece to have more flexibility and versatility in the treatments.

- permanent hair reduction
- benign pigmented lesions
- skin rejuvenation procedures
- vascular treatments
- active acne

## TECHNICAL SPECIFICATIONS

Lasers		Nd:YAG	
Wavelength	[nm]	1064	532
Pulse width Q-Switch mode	[ns]	6	
Pulse width FR mode (*)	[µs]	100-300	
Repetition rate	[Hz]	up to 10	
Spot size (optional)	[mm]	2x2; 3x3; 4x4; 5x5 or round Ø 2; 3; 4; 6	
Fluence Q-Switch mode(**)	[J/cm <sup>2</sup> ]	up to 28	up to 14
Fluence FR mode(**)	[J/cm <sup>2</sup> ]	up to 64	-
Electrical requirements		230 Vac; 10A; 50/60 Hz	
Dimensions and weight		244(W) x 791 (D) x 854 (H) mm <sup>3</sup> ; 60 Kg	
Dimensions and weight with Twain connector (*)		244(W) x 823 (D) x 924 (H) mm <sup>3</sup> ; 70 Kg	

(\*) Optional

(\*\*) With round handpieces

## OPTION

		Twain IPL (*)					
Source		Filtered Xenon Flashlamp					
Wavelength	[nm]	650-1200	625-1200	590-1200	570-1200	550-1200	400-1200
Pulse width	[ms]	5-40					
Pulses train duration	[ms]	up to 240 ms					
Repetition rate	[Hz]	0,5					
Spot size	[mm]	48x13 mm <sup>2</sup> - 25x13 mm <sup>2</sup>					
Fluence	[J/cm <sup>2</sup> ]	up to 25					

(\*) Optional

**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 9001:2015 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.

