

Taking care of people, our masterpieces

# Q-Plus EVO

Q-Switched Laser Platform Tailored to Your Needs



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



## Q-SWITCHED LASER PLATFORM TAILORED TO YOUR NEEDS

**Q-Plus EVO** is based on a powerful Q-Switched laser technology that ensures a great versatility in clinical applications. Q-Plus EVO includes different Q-Switched lasers which interact photo-acoustically with the tissues, IPL and Pulsed Lasers that act in a Photo-Thermal way. These exclusive combinations make this system unique and capable of treating multi-color tattoos and benign pigmented lesions without using the unefficient and consumables dye handpieces really common in other systems. It is also used for permanent hair reduction, vascular lesion removal and treatments of aged pigmented skin.

#### THE Q-SWITCHED MODE

In Q-Switched mode, very short pulses (6ns) deliver very high peak power (hundreds of Mega Watts) enabling a highly efficient photo-acoustic effect and drastically reducing thermal interaction with tissue. As a result, the unwanted tattoos and natural pigments of the skin are fragmented in small particles that are removed through the process of phagocitosys.



HYBRID CONFIGURATION



FULL Q-SWITCH CONFIGURATION

#### **Q-SWITCHED WITH PULSED LASERS**

The pulsed additional modules effectively perform permanent hair reduction, vascular lesions removal and treatment of aged and pigmented skin. These modules are composed of Nd:YAG (1064/532 nm and optionally @1320 nm)/Alexandrite (755 nm). The effects are based on the selective thermal damage of the skin targets such as melanin, blood and water.

The laser handpiece of the Pulsed modules can be integrated with either contact or air based skin cooling devices, allowing safe and comfortable treatments.



#### FLAT TOP OPTIBEAM II TECHNOLOGY

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 II<sup>®</sup> 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 II<sup>®</sup> has squared, rounded and fractionated beam profiles. These handpieces are all not convergent to maximize the delivery of energy in deep skin and to be used in safety also if the handpiece is not in perfect contact with the skin.



## **EVO CONFIGURATIONS**

	Q-SWITCHED and PHOTO-THERMAL	Nd:YAG 1064/532 nm				
Benign pigmented lesion removal - Tattoo removal - Lightening of unwanted hairs - Skin rejuvenation Dermatological foot conditions (skin and nails)						
Q-PLUS C	Q-SWITCHED and PHOTO-THERMAL	Nd:YAG 1064/532 nm				
	Q-SWITCHED and PHOTO-THERMAL	RUBY 694 nm				
Removal of almost all tattoo colors - Benign pigmented lesion removal - Lightening of unwanted hairs Skin rejuvenation - Dermatological foot conditions (skin and nails) - Permanent hair reduction*						
Q-PLUS R	Q-SWITCHED and PHOTO-THERMAL	RUBY 694 nm				
Tattoo removal - Benign pigmented lesion removal - Permanent hair reduction*						
Q-PLUS STAR 1	Q-SWITCHED and PHOTO-THERMAL	Nd:YAG 1064/532 nm				
	PULSED	Nd:YAG 1064/1320 nm (Optional)				
Benign pigmented lesion removal - Tattoo removal - Lightening of unwanted hairs - Skin rejuvenation Permanent hair reduction* - Dermatological foot conditions (skin and nails) - Dermatological vascular lesions Scars treatment - Inflammatory acne						
<b>Q-PLUS STAR 2</b>	Q-SWITCHED and PHOTO-THERMAL	Nd:YAG 1064/532 nm				
	PULSED ALEXAN					
Benign pigmented lesion re	moval - Tattoo removal - Permanent hair reduction* - I ological foot conditions (skin and nails) - Dermatologic	Lightening of unwanted hairs cal vascular lesions				
Skin rejuvenation - Dermat	Q-SWITCHED and PHOTO-THERMAL	Nd:YAG 1064/532 nm				
Skin rejuvenation - Derman						
1	ological foot conditions (skin and nails) - Dermat	ologi:				

## RESULTS **BEFORE / AFTER**



TATTOO REMOVAL Courtesy Second Skin-Laser Tattoo Removal



Courtesy Second Skin-Laser Tattoo Removal



TATTOO REMOVAL Courtesy Second Skin-Laser Tattoo Removal





MELASMA Courtesy Cheng Jumping MD





Courtesy Paolo Sbano MD



LENTIGO

### ACCESSORIES



#### **TWAIN CONNECTOR**

Q-Plus EVO, through the special Twain universal connector, can be equipped with Twain 2940 and Twain IPL handpieces.

#### Nd:YAG 1320

Optional for Q-Plus Star 1. It is a Nd:YAG @ 1320 nm, very effective for non-ablative skin rejuvenation and for scars treatments.

#### **TWAIN 2940**

Twain 2940 is a laser handpiece that fits to the Twain universal connector present on the Quanta System laser platforms. It has been designed to perform ablation procedures, both fractional and homogeneous. The Er:YAG laser @ 2940 nm is able, through the variation of pulse parameters, to remove the layers of skin with minimal thermal damage or produce a higher coagulation suitable for the stimulation of collagen production.



FRACTIONAL skin resurfacing traumatic and acne scars epidermal dyschromia sun and age spots

HOMOGENOUS skin ablation full skin resurfacing

#### **TWAIN IPL**

Q-Plus EVO can be equipped with Twain IPL handpieces. The contact skin cooling and the 6 range of wavelengths available, expand flexibility and versatility in the treatments.

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



#### **Integrated Contact SKIN COOLER**

The skin cooler is fully integrated into the system. In all treatment performed with pulsed lasers (Q-Plus Star 1, 2 and Ultralight) it ensures an effective thermal protection and increases the treatment comfort.



#### **SKINCRYO**

It is an adapter that integrates the optics of pulsed laser (Q-Plus Star 1, 2 and Ultralight) with Zimmer air cooling.

This handpiece ensures the best pain reduction when treating large areas.



## **TECHNICAL SPECIFICATIONS**

Laser		Q-Switched Nd:YAG	Q-Switched FD Nd:YAG	Q-Switched Ruby	
Wavelength	(nm)	1064	532	694	
Pulse width		6ns in single pulse;	6ns in single pulse;		
		6ns + >150µs + 6ns in OP	6ns + >150µs + 6ns in OP	30ns;	
		mode (double pulse);	mode (double pulse)	2 ms in PT mode (Photo-Thermal)	
		300µs in PT mode (Photo-Thermal)			
Beam delivery		articulated arm with	articulated arm with	articulated arm with	
		detachable handpiece	detachable handpiece	detachable handpiece	
Available spot size	(mm)	2, 4, 6, 8 mm round;	2, 4, 6, 8 mm round;	2, 4, 6, 8 mm round;	
		2x2, 3x3, 4x4, 5x5 square;	2x2, 3x3, 4x4, 5x5 square;	2x2, 3x3, 4x4, 5x5 square;	
		fractional round 8 mm	fractional round 8 mm	fractional round 8 mm	
Max fluence	(J/cm <sup>2</sup> )	30; 45 (OP); 60 (PT)	15; 19 (OP)	35; 60	
Repetition rate	(Hz)	up to 10	up to 10	up to 3	
-					
Laser		Pulsed Nd:YAG	Pulsed FD Nd:YAG	Pulsed Alexandrite	
Wavelength	(nm)	1064	532	755	
Pulse width	(ms)	0.3 - 300	2 - 50	0.3 - 300	
Beam delivery		Optical fiber with detachable handpiece			
Available spot size	(mm)	2-5, 6, 8, 10, 12, 14, 16	2-5, 6	6, 8, 10, 12, 14, 16	
Max fluence	$(J/cm^2)$	500 (software limited)	95	123	
Repetition rate	(Hz)	single; up to 10	single; up to 10	single; up to 10	
Skin Cooling system integrated skin cooler (optional) or air cooling handpiece adaptor (optiona			adaptor (optional)		

Electrical requirements	3.7 kVA, 200-240 Vac; 50/60 Hz
Dimensions and weight	530(W) x 1043 (D) x 1060 (H) mm <sup>3</sup> ; 150 Kg

OPTION		Twain 2940	Twain IPL				Nd:YAG 1320 (1)		
Source		Er:YAG	IPL handpieces				Nd:YAG		
Wavelength	(nm)	2940	650-1200	625-1200	590-1200	570-1200	550-1200	400-1200	1320
Pulse width	(ms)	0.3 - 1	5-240				5 - 10		
Spot size	(mm)	2, 4, 9 fractionated	48x13 mm <sup>2</sup> - 25x13 mm <sup>2</sup>				up to 12		
Max fluence	(J/cm <sup>2</sup> )	up to 95	up to 25				up to 35		
Repetition rate	(Hz)	up to 6	0,5	0,5	0,5	0,5	0,5	0,5	up to 5

(1) Nd:YAG 1320 option available for New Q-Plus Star 1

<sup>(2)</sup> Round handpieces are available on request
<sup>(3)</sup> With square shaped handpieces

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 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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