

Q-Plus Series

Q-Switched Laser Platforms: Designed on Your Needs

Performances and Flexibility

MULTICOLOUR TATTOO REMOVAL
BENIGN PIGMENTED LESIONS REMOVAL
SKIN REJUVENATION PROCEDURES

PERMANENT HAIR REDUCTION
VASCULAR LESIONS REMOVAL
SCARS AND KELOIDS
(STAR VERSIONS)

ABLATIVE FRACTIONAL
SKIN RESURFACING
(TWIN 2940)



Quanta System Q1
LASER IN OUR DNA

Performances and Flexibility

The Q-Switched mode

In Q-Switched mode, very short pulses (6ns) deliver very high peak power (hundreds of Mega W) enabling a high efficient photo-acoustic effect, reducing thermal interaction with tissue.

As a result, the unwanted pigments of the skin are fragmented in small particles that are expelled through the process of phagocytosis.

Combined Q-Switched and Short/Long Pulsed Lasers

The Short and Long pulsed additional modules effectively perform permanent hair reduction, vascular lesions removal, skin rejuvenation. These modules are composed by **Nd:Yag** (at

1064/532 nm and optionally at **1320 nm**)/ **Alexandrite** (at **755 nm**)/ IPL.

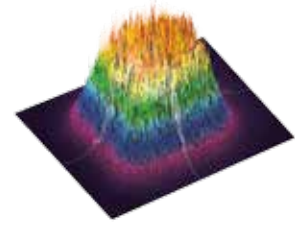
The effects are based on the selective thermal damage of the skin targets such as melanin, blood and water.

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

Flat top OptiBeam technology

This feature enables safer and effective treatments (no scars), because the energy is homogeneously delivered over the treated areas.

The square beams allow no overlap of the pulses (precise pulse sliding).



OptiBeam homogeneous squared beam profile



OptiBeam handpieces

UNIQUE DEVICES

Q-Plus C/T: the highest powered 3-wavelength Q-Switched system.

The unique **Nd:Yag 1064/532 nm** and **Ruby 694 nm** Q-Switched combo system. Three wavelengths target efficiently all tattoo colours and pigmented lesions.

Green, red, blue and black pigments can be removed effectively and fastly, due to the high power, the big spot size and the high repetition rate.

The revolution in tattoo and benign pigmented lesion removal.

New Q-Plus*: the Star version is a unique Series which combines Q-Switched **Nd:Yag 1064/532 nm** with Short and Long Pulsed Nd:Yag or Alexandrite lasers.

Q-PLUS SERIES & APPLICATIONS

Q-PLUS A

It is composed of a Q-Switched module operating at **532** and **1064 nm**, having a max energy of 1 J per pulse (@1064 nm).

Applications:

- Benign pigmented lesions removal
- Multicoloured tattoo removal
- Skin rejuvenation procedures

Q-PLUS B

It is the most powerful Q-Switched laser system available in the market. It works at **532** and **1064 nm**, with

max energy of 0,7 J @ 532 nm and 1,5 J per pulse @ 1064 nm.

Applications:

- Benign pigmented lesions removal
- Multicoloured tattoo removal
- Skin rejuvenation procedures

Q-PLUS R

It is a powerful Q-Switched Ruby laser operating at **694 nm**

Applications:

- Benign pigmented lesions removal
- Multicoloured tattoo removal

Q-PLUS C and Q-PLUS C/T

The **1064/532 nm Nd:Yag** is combined with a **Ruby** laser source all in one unit. Three Q-Switched wavelengths to enable removal of all types of tattoo colours and most of the benign pigmented lesions.

Applications:

- All tattoo colour removal
- Benign pigmented lesions removal
- Skin rejuvenation procedures

New Q-PLUS * Platform

It is the unique laser system available in the market working both in Q-Switched and Short/Long pulsed modalities.

New Q-PLUS * 1

A Q-Switched **532** and **1064 nm** laser combined with a very powerful and versatile Short/Long pulsed **Nd:Yag 1064 nm**.

Applications:

- Benign pigmented lesions removal
- Multicoloured tattoo removal
- Skin rejuvenation procedures
- Permanent hair reduction for every skin type
- Vascular lesions removal

New Q-PLUS * 2

A Q-Switched **532** and **1064 nm**

laser combined with Long pulsed **Alexandrite 755 nm**, the best wavelength to perform permanent hair reduction for skin types I-IV.

Applications:

- Benign pigmented lesions removal
- Multicoloured tattoo removal
- Permanent hair reduction for skin type I-IV

CLINICAL RESULTS

TATTOO REMOVAL



Before

After

TATTOO REMOVAL

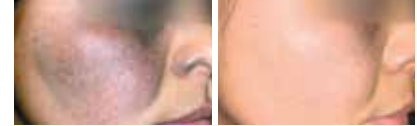


Before

After 7 treatments

OTA NEVUS

Courtesy of Galimberti MD



Before

After 4 treatments

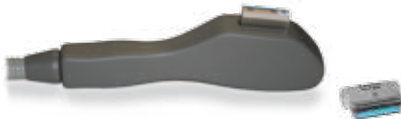
OPTIONS

Twain IPL

Q-Plus Series can be equipped, at any treatment time, with an optional IPL, enhancing flexibility and versatility.

Applications:

- Permanent hair reduction
- Benign pigmented lesions removal
- Skin rejuvenation procedures
- Vascular lesions removal
- Active acne



Twain IPL handpiece



2-5 mm variable spot size handpiece for Star versions

Twain 2940

Optional for each series is an Erbium Yag laser all built into an handpiece. Through this module both fractional and traditional ablative skin resurfacing procedures are possible. This TWAIN represents a very effective solution improving specific skin conditions or pathologies.

Applications:

- Ablative fractional resurfacing
- Skin peels
- Benign pigmented lesions



Twain 2940 handpiece

Nd:Yag 1320 (Q-Plus *1)

Optional for any long pulsed Nd:Yag of this Series is the 1320 nm wavelength.

Due to its higher absorption by water and great penetration into the dermis, it is very effective for non-ablative skin treatment.



Integrated optional skin cooler for Star versions

TWAIN universal connector

Q-Plus Series has a special optional connector for TWAIN handpieces



MODEL	Q-Plus A	Q-Plus B	Q-Plus R	Q-Plus C and T	New Q-Plus * 1	New Q-Plus * 2	Twain IPL	Twain 2940	Nd:Yag 1320 ⁽¹⁾
Permanent hair reduction					●	●	●		
Vascular lesions removal					●		●		
Skin rejuvenation	●	●	●	●	●	●	●	●	●
Fractional ablative rejuvenation								●	
Benign epidermal pigmented lesions removal	●	●	●	●	●	●	●	●	
Benign dermal pigmented lesions removal	●	●	●	●	●	●			
Tattoo removal	●	●	●	●	●	●			
Surgical dermatology								●	

(1) Optional only for New Q-Plus * 1

Q-Plus Series

MODEL	Q-Plus A		Q-Plus B		Q-Plus R	Q-Plus C/T		
Laser	QS Nd:Yag		QS Nd:Yag		QS Ruby	QS Nd:Yag		QS Ruby
Wavelength (nm)	1064	532	1064	532	694	1064	532	694
Pulse width (ns)	6	6	6	6	30	6	6	30
Repetition rate (Hz)	up to 10	up to 10	up to 10	up to 10	1	up to 10	up to 10	1
Spot size (mm)	up to 5x5	up to 5x5	up to 5x5	up to 5x5	up to 5x5	up to 5x5	up to 5x5	up to 5x5
Max fluence (J/cm ²)	up to 25	up to 12	up to 37	up to 17	up to 25	up to 25	up to 12	up to 25
Electrical requirements	230 V ac; 16 A; 50/60 Hz							
Dimensions and weight	480 (W) x 900 (D) x 930 (H) mm; 90 Kg							

MODEL	New Q-Plus * 1				New Q-Plus * 2			
Laser	QS Nd:Yag		Nd:Yag Long Pulse	Nd:Yag Short Pulse	QS Nd:Yag		Alexandrite	
Wavelength (nm)	1064	532	1064	1064	1064	532	755	
Pulse width (ns)	6	6	2-100	0.3 - 1	6	6	2-100	
Repetition rate (Hz)	up to 10	up to 10	up to 2	up to 7	up to 10	up to 10	up to 2	
Spot size (mm)	up to 5x5	up to 5x5	up to 12	up to 6	up to 5x5	up to 5x5	up to 16	
Max fluence (J/cm ²)	up to 25	up to 12	>300	up to 190	up to 25	up to 12	up to 123	
Electrical requirements	230 V ac; 16 A; 50/60 Hz							
Dimensions and weight	480(W) x 900 (D) x 930 (H) mm; 90 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 ² - 25x13 mm ²						up to 8
Max fluence [J/cm ²]	up to 95	up to 30						up to 35 @ 6 mm
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 * 1

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 El. 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.

