

Quanta System
LASER IN OUR DNA

Q-Plus C
MT Option





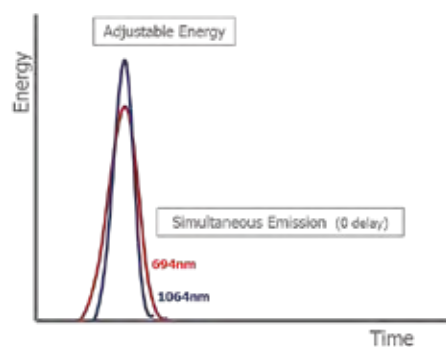
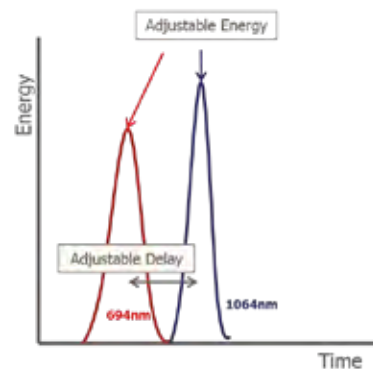
Q-Plus C MT Option

*Q-Switched Laser Platform
with Exclusive MT Technology*

Q-Plus C - MT Option represents a real innovation thanks to three active Q-Switched wavelengths and the revolutionary Quanta System Mixed Technology.

Q-Plus C - MT Option is based on powerful **Q-Switched Ruby 694 nm, Nd:YAG 1064 nm and FD Nd:YAG 532 nm.**

It is able to deliver single, sequential or simultaneous wavelength emissions to ensure great versatility in clinical applications in Q-Switched or Photo-Thermal mode. These exclusive combinations make this system unique and capable of treating more efficiently multi-color tattoos and benign pigmented lesions as well as skin rejuvenation procedures, without using inefficient and consumable dye handpieces.



Quanta System Mixed Technology

Tattoo Removal

Tattoo Removal with True R0 Technique

The R0 technique is the procedure involving two laser passes on the same tattooed area without a lag time between them. This pause is about 20 minutes because it is the time necessary to the frosting to naturally disappear.

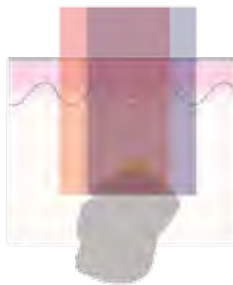
The only existing way to perform the R0 technique has been so far through the direct application on the skin of Perfluorodecalin (PFD) to automatically dissolve frosting gas bubbles.

This element is extremely effective for this purpose but also very expensive.

Q-Plus C – MT Option now makes it possible to completely cut these high costs thanks to the Quanta System Mixed Technology.

The **simultaneous emission** of Q-Switched laser sources is the key of success especially on recalcitrant color shades like dark blue and black.

Simultaneous Pulses:
Ruby 694 nm + Nd:YAG 1064 nm



The rapid and local laser effect causes violent expansion that generates acoustic shock waves



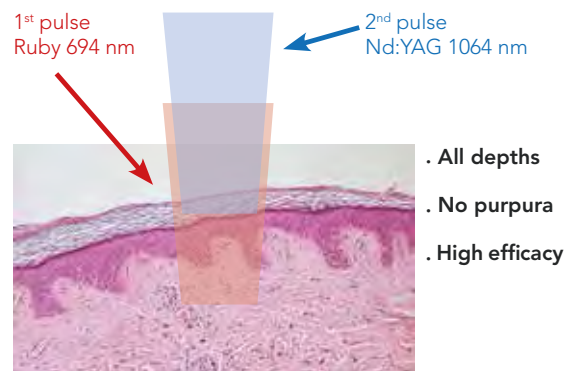
The "double" acoustic waves destroys more efficiently the ink particles



Dermal Pigmentation

The treatment of dermal pigmentations has always taken great advantages of Nd:YAG 1064 nm in terms of safety because of its low melanin absorption and deep penetration into the skin. These characteristics make it necessary unfortunately to perform a great number of sessions, especially on Asian skins. The addition of Ruby 694 nm, which penetrates less into the skin with a higher melanin absorption, makes it possible to remove deep melanosomes causing minimal post treatment inflammation. Q-Plus C – MT Option is thus the ideal ally in these treatments (like Melasma) permitting to reduce the number of sessions with maximum patient safety and efficacy.

694 + 1064 nm for dermal pigmentations



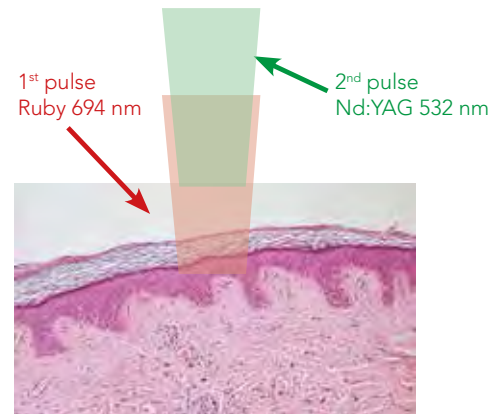
Epidermal Pigmentation

The treatment of epidermal pigmentations takes great advantage of FD Nd:YAG 532 nm and Ruby 694 nm. The wavelength of 532 nm is extremely well absorbed by melanin but because of its great absorption by blood it is also considered too much aggressive when treating Asian and dark skins. For this reason it is important to keep its fluence during treatment at a sub-purpuric level with often incomplete results. The wavelength of 694 nm has instead good absorption by melanin and minimal by blood.

These treatments are perfect to maintain the purpura generation risk under control but its lower melanin absorption compared to 532 nm requires a higher fluence with a possible increase of inflammation and Post Inflammatory Hyperpigmentation (PIH).

Q-Plus C – MT Option with a sequential combination of both wavelengths at low fluences permits to combine their melanin absorption with a global sub-purpuric level for maximum efficacy and safety.

694 + 532 nm for superficial pigmentations



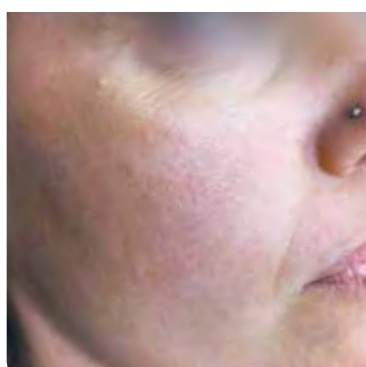
- Top efficacy
- Less purpura

Before and After pictures



LENTIGO

Courtesy Paolo Sbano MD



PIGMENTED LESIONS

Courtesy Paolo Sbano MD



MELASMA

Courtesy Cheng Jumping MD



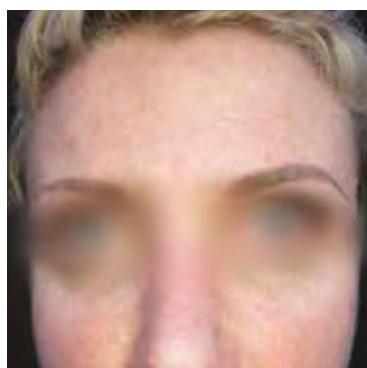
PIGMENTED LESIONS

Courtesy Cheng Jumping MD



LENTIGO

Courtesy Paolo Sbano MD



FINE LINES

Courtesy Paolo Sbano MD

Indications

- Benign Pigmented Lesions
- Benign Cutaneous Lesions
- Removal of black, dark blue, brown, red, orange, violet, sky blue and green tattoo inks
- Scar Treatment

- Skin Rejuvenation
- Lightening of unwanted hairs
- Inflammatory Acne
- Dermatological foot conditions (skin and nail) treatment

Optional Accessories



TWAIN CONNECTOR

Q-Plus C - MT option, through the special Twain universal connector, can be equipped with a powerful Fractional Er:YAG 2940 nm for Skin Rejuvenation and with the Twain IPL handpieces for Hair Removal, Vascular and Active Acne treatments.

TWAIN 2940

Twain 2940 is a laser handpiece that fits to the Twain universal connector present on the Quanta System EVO platforms. It has been designed to perform ablation procedures, both fractional and full spot.

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
- Wrinkles and fine lines

FULL SPOT

- Skin ablation
- Full skin resurfacing

TWAIN IPL

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

- Permanent hair reduction
- Benign pigmented lesions
- Skin rejuvenation procedures
- Dermatological vascular treatments
- Active acne



Technical Specifications

LASER	Q-Switched and Photo-Thermal Nd:YAG	Q-Switched FD Nd:YAG	Q-Switched and Photo-Thermal Ruby
Wavelength (nm)	1064	532	694
Pulse width	6ns in single pulse; 6ns + 6ns in OP mode (double pulse); 300 µs in PT mode (Photo-Thermal)	6ns in single pulse; 6ns + 6ns in OP mode (double pulse)	30ns in single pulse; 2 ms in PT mode (Photo-Thermal)
Max fluence (J/cm ²)	25 (QS); 37.5 (OP); 50 (PT)	12.5 (QS); 15 (OP)	30 (QS); 50 (PT)
Repetition rate (Hz)	up to 10	up to 10	up to 3

LASER	Q-Switched Mix Ruby + Nd:YAG	Q-Switched Mix Ruby + FD Nd:YAG	Photo-Thermal Mix Ruby + Nd:YAG
Wavelength (nm)	694 + 1064	694 + 532	694 + 1064
Pulse width	30 ns + 6 ns	30 ns + 6 ns	1.6 ms + 300 µs
Max fluence (J/cm ²)	20 + 17.5	20 + 8.5	32.5 + 32.5
Repetition rate (Hz)	up to 3	up to 3	up to 3

Beam delivery	Articulated arm with detachable handpieces
Available handpieces (optional) (mm)	2x2, 3x3, 4x4, 5x5, 7x7 square; 3, 4.5, 6, 7.5, 9, 10.5 round (not with Mixed mode) fractional round 8 mm
Electrical requirements	3.7 kVA, 200-240 Vac; 50/60 Hz
Dimensions and weight	530 mm (W) x 1043 mm (D) x 1060 mm (H); 150 kg

OPTION	Twain 2940	Twain IPL					
Source	Er:YAG	IPL handpiece					
Wavelength (nm)	2940	650-1200	625-1200	590-1200	570-1200	550-1200	400-1200
Pulse width (ms)	0.3 ÷ 1	5 - 40 (pulses train duration up to 240 ms)					
Max Fluence (J/cm ²)	up to 10	up to 25					
Repetition rate (Hz)	up to 6	0.5					
Spot size (mm)	Ø 2, 4, 9 (normal) Ø 9 fractional	48x13 mm ² - 25x13 mm ²					

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

VISIBLE AND INVISIBLE LASER RADIATION

Avoid eye skin exposure to direct or scattered radiation
Laser product: Class 4
Aiming beam: Class 3R



CAUTION - Laser radiation

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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 UNI EN ISO 9001:2015 and EN ISO 13485:2016 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.

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