

Quanta System
LASER IN OUR DNA

Q-Plus
EVO Series





Q-Plus-EVO Series

*Q-Switched Laser Platform
Tailored to Your Needs*

Q-Plus - EVO Series is a powerful Q-Switched laser technology available in **6 different configurations** to better adapt to every user needs ensuring maximum versatility. In the same system it is possible to insert up to two different laser sources: pure **Q-Switched** or hybrid **Q-Switched/Pulsed**.

This system takes great advantage on active solid-state Q-Switched lasers without using inefficient and consumable dye handpieces which are really common in other systems on the market.

Q-Plus is the ideal solution to perform a **great range of treatments** among which the removal of benign pigmented lesions, tattoo removal, skin resurfacing/rejuvenation, dermatological vascular lesions and hair removal.



Q-Switched sources

Q-Switched sources (in 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, undesired tattoos and pigmentations of the skin can be fragmented in small particles to be removed through the natural process of phagocytosis.

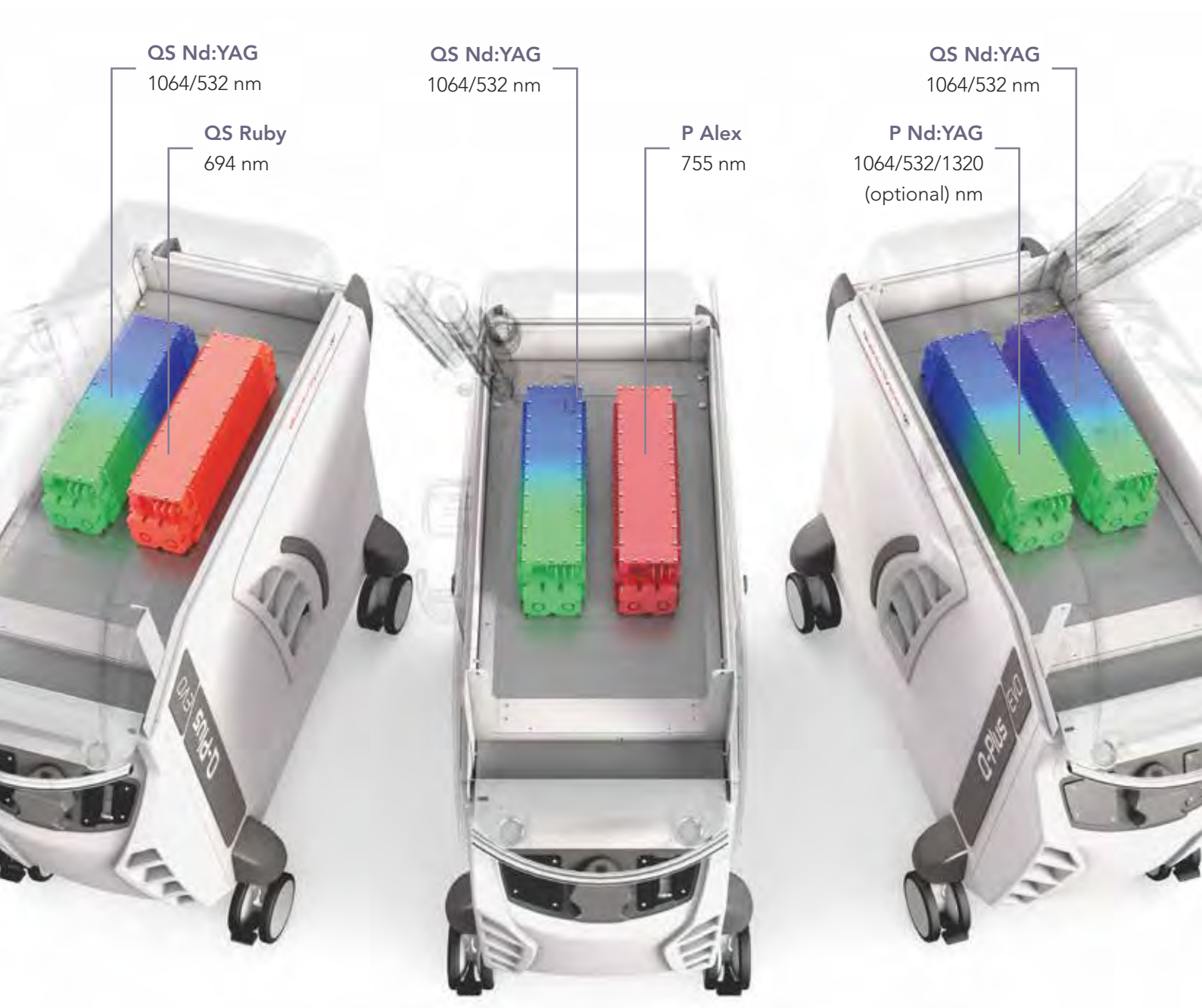


Pulsed sources

The **Pulses** additional modules effectively perform by permanent hair reduction, vascular lesions removal and treatment of aged and pigmented skin.

These modules are composed by **Nd:YAG** (1064/532 nm and optional 1320 nm) or **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.



Configurations

Q-PLUS A

Q-SWITCHED and PHOTO-THERMAL - Nd:YAG 1064/532 nm

Indications

Benign pigmented lesion removal - Tattoo removal* - Lightening of unwanted hairs
Skin resurfacing / rejuvenation Dermatological foot conditions (skin and nails)

Q-PLUS R

Q-SWITCHED and PHOTO-THERMAL - Ruby 694 nm

Indications

Tattoo removal** - Benign pigmented lesion removal

Q-PLUS C

Q-SWITCHED and PHOTO-THERMAL - Nd:YAG 1064/532 nm

Q-SWITCHED and PHOTO-THERMAL - Ruby 694 nm

Indications

Removal of almost all tattoo colors - Benign pigmented lesion removal - Lightening of unwanted hairs
Skin resurfacing / rejuvenation - Dermatological foot conditions (skin and nails)

Q-PLUS STAR 1

Q-SWITCHED - Nd:YAG 1064/532 nm

PULSED - Nd:YAG 1064/1320 nm (optional)

Indications

Benign pigmented lesion removal - Tattoo removal* - Lightening of unwanted hairs - Permanent hair reduction
Skin resurfacing / rejuvenation - Dermatological foot conditions (skin and nails) - Dermatological vascular lesions
Scars treatment - Inflammatory acne

Q-PLUS STAR 2

Q-SWITCHED and PHOTO-THERMAL - Nd:YAG 1064/532 nm

PULSED - Alexandrite 755 nm

Indications

Benign pigmented lesion removal - Tattoo removal* - Permanent hair reduction - Lightening of unwanted hairs
Skin resurfacing / rejuvenation - Dermatological foot conditions (skin and nails) - Dermatological vascular lesions

ULTRALIGHT

Q-SWITCHED - Nd:YAG 1064/532 nm

PULSED - Nd:YAG 1064/532 nm

Indications

Benign pigmented lesion removal - Tattoo removal* - Lightening of unwanted hairs - Permanent hair reduction
Skin resurfacing / rejuvenation - Dermatological foot conditions (skin and nails) - Dermatological vascular lesions
Scars treatment - Inflammatory acne

* Black, dark blue, brown, red, orange, yellow and purple ink

** Blue, sky blue, dark blue, black, brown, green and violet ink)

Before and After pictures



TATTOO REMOVAL

Courtesy Second Skin-Laser Tattoo Removal



TATTOO REMOVAL

Courtesy Second Skin-Laser Tattoo Removal



TATTOO REMOVAL

Courtesy Second Skin-Laser Tattoo Removal



TATTOO REMOVAL

Courtesy Second Skin-Laser Tattoo Removal



LENTIGO

Courtesy Paolo Sbano MD



MELASMA

Courtesy Cheng Jumping MD

Optional Accessories



Nd:YAG 1320 nm

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 CONNECTOR

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

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 - EVO Series 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



Integrated Contact SKIN COOLER

The contact Skin Cooler provides skin cooling during laser treatment, effectively reducing the pain and allowing the use of the proper fluencies especially for vascular lesions treatments to reduce potential side effects.



SKINCRYO

The Skin Cryo handpiece is intended to work in combination with an external compatible air cooling unit to provide a cold air flow designed for the reduction of pain and thermal injury on skin tissue.



Technical Specifications

LASER	Q-Switched Nd:YAG	Q-Switched FD Nd:YAG	Q-Switched Ruby
Wavelength (nm)	1064	532	694
Pulse width	6 ns in single pulse; 6 ns + 6 ns in OP mode (double pulse); 300 µs in PT mode (Photo-Thermal)	6 ns in single pulse; 6 ns + 6 ns in OP mode (double pulse)	30 ns; 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
Available handpieces (optional) (mm)	3, 4.5, 6, 7.5, 9, 10.5 mm round; 2x2, 3x3, 4x4, 5x5, 7x7 square; fractional round 8 mm		
Beam delivery	Articulate harm with detachable handpieces		

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
Max fluence (J/cm ²)	500 (software limited)	95	123
Repetition rate (Hz)	single; up to 10	single	single; up to 10
Available spot size (mm)	2-5, 6, 8, 10, 12, 14, 16	2-5, 6	6, 8, 10, 12, 14, 16
Beam delivery	Optical fiber with detachable handpieces		
Skin cooling system	Integrated skin cooler (optional) or air cooling handpiece adaptor (optional)		

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						Nd:YAG 1320*
Source	Er:YAG	IPL handpiece						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 - 40 (pulses train duration up to 240 ms)						5 - 10
Max Fluence (J/cm ²)	up to 10	up to 25						up to 35
Repetition rate (Hz)	up to 6	0.5						up to 5
Spot size	2, 4, 9, fractional	48x13 mm ² - 25x13 mm ²						6 - 8 - 10
Notes*	Nd:YAG 1320 option available for Q-Plus Star 1							

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



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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