



IA
INNATE ABILITY

MOTUS AY

The All-In-One Simple Solution
for Aesthetic Medicine
and Dermatology

- Hair Removal
- Vascular Lesions
- Benign Pigmented Lesions
- Non-Ablative Skin Rejuvenation
- Onychomycosis
- Pseudofolliculitis Barbae (PFB)
- Acne

DEKA
Innate Ability



Motus AY

DEKA came out with a revolutionary technology in the field of laser hair removal



DEKA laser: a world evolving rapidly!

A new, even more complete product has been conceived based on the great success of the Motus AX system that radically transformed the world of laser hair removal.

Motus AY adds a Nd:YAG laser source to the technological innovation of its predecessor, broadening the range of possible treatments. Not only laser hair removal and pigmented lesions, but also vascular treatments to meet the growing demand of patients. A unique system that is compact, effective, and safe - with an incomparable quality to price ratio.

“ I've been working with various types of laser at my clinic for many years now. The most highly sought-after treatments are undoubtedly those for the aesthetic sector. For this reason, I believe that the new Motus AY system is a truly ground-breaking initiative for our sector. Motus AY is a compact low-cost system, yet it also has enormous potential. While the Moveo technology of the Motus AX system revolutionised the field of assisted laser epilation, now Nd:YAG has gone one step further, extending the range of possible treatments to all patients wanting to remove vascular blemishes from their face and legs. It's the ideal system for professionals wanting to move into the world of laser, because with a relatively minor investment the medical centre can be equipped with a high performance system and a broad range of treatments. It is also useful for centres with high demand for epilation and vascular treatments and which want to offer more outpatient treatments to increase their turnover. ”

Prof. Nicola Zerbinati, M.D.
Department of Dermatology
University of Insubria - Varese, Italy



A Completely New Laser Concept

Motus AY is the new system that DEKA has developed to complete the Motus AX Alexandrite laser. A system without rivals, with all the benefits and no disadvantages of Alexandrite laser, now equipped with a Nd:YAG laser source too:

- The Alex wavelength is the only one which is effective when treating fine and light hair. No other type of laser is able to combine an efficient melanin absorption (at 755 nm), a high peak power (more than 6,000 W) and the possibility of selecting a short pulse length (up to 2 ms).
- The Nd:YAG source at 1,064 nm completes the system adding a wavelength which penetrates deep inside the skin to be effective in vascular treatment, not only for the face but also for legs where vessels are more difficult to be reached.
- The Moveo handpiece (available for both Alex and Nd:YAG) allows unwanted hair to be removed by means of a new method that is easier, faster, safer, painless and more effective.
- An innovative technology structurally simplifies the heart of the laser system, reducing costs and maintenance problems.
- A compact, portable system with a surprisingly low cost!

**DEKA has changed
the whole concept
of laser platform
for a modern
dermo-aesthetic
centre!**



Motus AY's PLUS

755 nm	Wavelength universally recognised as the most effective for hair removal.
1064 nm	Nd:YAG is the only wavelength able to treat successfully large and deep vessels such as leg telangiectasias thanks to the combination of low melanin absorption and efficient haemoglobin absorption, high peak power emission with a correct modulation of the pulse length according to the specific treatment needs.
Moveo Technology	The new frontier for hair removal.
11	Choose up to eleven handpieces on board for the laser sources (customized selection) with an automatic recognition system.
Cooling	Integrated contact skin cooling system.
Over 200	Integrated protocols developed for Moveo Technology and standard handpieces.
16 A	The Motus AY's electrical supply is limited to 16 A. The system can be plugged into any common electrical outlet in a clinic or doctor's office.
Simple & User Friendly	The Motus AY has been entirely designed by DEKA R&D team, which integrates elements of simplicity and maneuverability: compact size, intuitive software, lightweight and ergonomic handpiece with contact cooling, and the entire Moveo method itself.
Great Benefits	A rapid Return On Investment (ROI) and a total patient satisfaction will increase your business!



Moveo Technology: Simply Extraordinary!

The **Moveo** handpiece with the sapphire tip, developed by DEKA's R&D, is the killer application in medical laser hair removal. It is a new idea based on 4 fundamental concepts:



effectiveness



speed



safety



simplicity

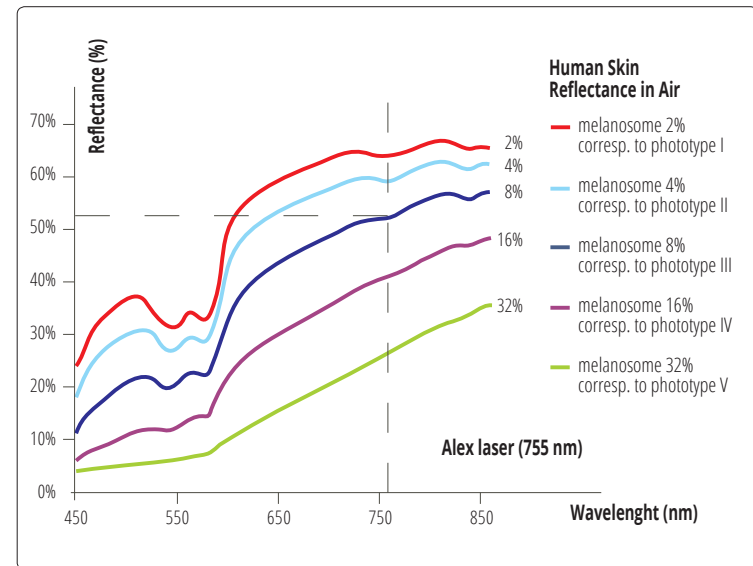
The Effectiveness of Technological Innovation

Moveo handpiece is available for both Alex and Nd:YAG laser, but is at 755 nm that shows its extraordinary innovation. The energy emitted by a laser system with wavelength visible and near infrared radiation is largely reflected by the skin. The graph below shows the reflectivity of the skin at various wavelengths and melanin content. For instance, the 755 nm Alexandrite laser wavelength demonstrates the percentage of reflection with melanin content of 8% (corresponds to phototype III) is over 50%. This is a significant portion of energy lost during the treatment, which cannot be used for therapeutic purposes.

This is due to the high variation of reflectance between the skin and the surrounding air. The Moveo handpiece was designed to solve this problem. DEKA has developed a technology using a sapphire tip that **drastically reduces the amount of energy reflected by the skin**, with an **efficiency that has never been seen until now!**

All the Advantages but without Limitations!

DEKA has overcome limitations and difficulties of the traditional Alexandrite for hair removal while retaining all the advantages. The Moveo Technology uses simple, even movements over specific areas, removing unwanted hair due to its **20 mm sapphire tip size**. The repeated passes over small areas, cause gradual heating of the vital parts of the hair leading to its destruction in a way **that is totally painless for the patient and side-effects free such as burning or discolouring**.





One Method for All: Easy to Use. Easy to Share

From an operational viewpoint the procedure is very simple:

- The handpiece is automatically recognized by the system that sets the Moveo mode.
- The simplified software and integrated database permit rapid choice of treatment parameters for any skin type, area and hair type.



- An accumulator displays the energy delivered during the treatment and an acoustic signal warns the user when the desired end-point has been reached. At this point you can treat another skin area.
- With the magnitudes involved (fluence, frequency and energy) the treatment time for a 10 cm x 10 cm area is approximately 25 seconds.

The Moveo technology is quick, easy to learn and immediately usable to all categories of staff (doctors, medical assistants, nurses).

Bikini line treated with **Moveo Technology**. The patient had a small black tattoo on her right side. For precautionary reasons the doctor left untreated the area close to the tattoo (2-3 cm) during the first session (A). After a month and a half from the only treatment administered, it is easy to observe the treated area (hairless), comparing to the hair regrowth adjacent the tattoo area (B).
Courtesy of M. Troiano, M.D. and Prof. P. Bonan, M.D. - Florence, Italy



A



B

The introduction in the **Motus AY** system of a long-pulse Nd:YAG laser source allows to extend the treatment range, including vascular field. The picture shows on the left side (A) the patient's initial condition with leg telangiectasias, while the right side (B) shows the follow-up 3 months after 1 session with long-pulse Nd:YAG laser.

Courtesy of G. Cannarozzo, M.D. and P. Campolmi, M.D. - Florence, Italy



A



B

Technical Data

Motus AY		
Laser Type	Alexandrite	Nd:YAG
Wavelength	755 nm	1064 nm
Energy per Pulse	31 J (max.)	63 J (max.)
Laser Power	62 W (max.)	94 W (max.)
Number of Pulses	1,2	1,2,3
Pulse Duration	From 2 to 50 ms (single pulse) From 4 to 80 ms (twin pulse)	From 0.2 to 50 ms (single pulse) From 0.4 to 50 ms (twin pulse)
Total Pulse Length	From 2 to 300 ms	From 0.2 to 300 ms
Repetition Rate	From 1 to 10 Hz	From 0.3 to 10 Hz
Spot Sizes (optional)	2.5 mm, 5 mm, 7 mm, 10 mm, 12 mm, 14 mm, 15 mm, 16 mm, 18 mm, 20 mm; Moveo handpiece	
Fluence	Up to 200 J/cm ²	Up to 600 J/cm ²
Aiming Beam	Green Diode Laser @ 532 nm - <4 mW	
Emission Control	Fingerswitch or footswitch	
Laser Handpiece Cooling	Integrated Skin Cooler	
Dimensions and Weight	Dimensions 90 (H) cm x 51 (W) cm x 83 (D) cm; 90 Kg	
Electrical Requirements	230 Vac - single phase - 50/60 Hz - 16 A	



This brochure is not intended for the market of USA.

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DEKA Innate Ability

A spin-off of the El.En. Group, DEKA is a world-class leader in the design and manufacture of lasers and light sources for applications in the medical field. DEKA markets its devices in more than 80 countries throughout an extensive network of international distributors as well as direct offices in Italy, France, Japan and USA. Excellence is the hallmark of DEKA's experience and recognition garnered in the sphere of R&D in over thirty years of activity. Quality, innovation and technological excellence place DEKA and its products in a unique and distinguished position in the global arena. DEKA manufactures laser devices in compliance with the specifications of Directive 93/42/EEC and its quality assurance system is in accordance with the ISO 9001 and ISO 13485 standards.

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