

## **MOTUS AX**

The New Era of Hair Removal

- Hair Removal
- Benign Pigmented Lesions

**DEKA**  
Innate Ability

**“I am extremely satisfied with the efficacy, safety and speed of treatment with Moveo Technology. I put aside my fears for what I had heard about the possible problems using Alexandrite laser on dark skins.”**



**Motus AX**



Fiona May  
Long Jump World Champion

## **The missing solution in the hair removal field**

The hair removal market is extremely complex. The numerous brands presenting their products generate fierce competition. Every clinic tries to offer the best care for their patients, but it is troublesome to discern the difference among these systems. All this is due to the fact that no definitive solution has yet been found for all patients and on all skin and hair types.

Until now!

DEKA is proud to introduce the new Motus AX Alexandrite laser system that has been specially designed and developed with Moveo technology that will revolutionise the laser hair removal market.

**“** I have been using the Alexandrite laser for years in my clinics because, in my experience, I consider it the most effective device for hair removal, especially when I have to remove fine and blond hair. No other system or wavelength can achieve satisfying results for my patients and myself in the same way. I do not deny, however, that in the past, other systems were simpler or more economical to use, but at the expense of a highly satisfactory final result. Since DEKA introduced the Moveo technology, and now even more so with the Motus AX, I have found the perfect product for my clinics, which satisfies my every need: a surprisingly simple method to learn and to perform; excellent results like never before with no more problems treating darker skin types or in the presence of light and fine hair; no complaints or discomfort by patients thanks to a completely painless treatment which has no side effects. **”**

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



## A New Alexandrite Laser Concept

**Motus AX** is the new system that DEKA has developed to complete the Moveo technology. A system without rivalries, with all the benefits of Alexandrite laser without the disadvantages:

- The only wavelength which is effective at treating fine and light hair. In fact, 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 Moveo handpiece allows unwanted hair to be removed by means of a new method that is easier, faster, safer and more effective (painless treatment, also suitable for darker skin types).
- An innovative technology that structurally simplifies the heart of the laser system, reducing costs and maintenance problems.
- A compact, portable system with a surprisingly low cost!

DEKA introduces the new Moveo PL handpiece, which extends the advantages of Moveo technology to the treatment of benign pigmented lesions. This new 7 mm handpiece allows to treat skin spots by progressively heating the lesion. Compared to the traditional "single spot" technique, the Moveo PL handpiece provides excellent efficacy without causing discoloration or hypopigmentation, which are very common, especially in skin with diffuse pigmentation. Once again, thanks to Moveo technology, patients can benefit from a painless, safe and effective treatment.

**DEKA  
has changed  
the whole concept  
of Alexandrite  
laser!**



### Motus AX's PLUS

<b>755 nm</b>	Wavelength universally recognised as the most effective for hair removal.
<b>Moveo Technology</b>	The new frontier for hair removal.
<b>Moveo PL Handpiece</b>	Moveo technology is now available also for treating benign pigmented lesions, with effective and painless treatments.
<b>20 mm</b>	One of the largest spot sizes for Alexandrite.
<b>10</b>	Choose up to ten handpieces on board for the laser sources (customized selection) with an automatic recognition system.
<b>Cooling</b>	Integrated contact skin cooling system.
<b>Over 200</b>	Integrated protocols developed for Moveo Technology and standard handpieces.
<b>16 A</b>	The Motus AX'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.
<b>Simple &amp; User Friendly</b>	The Motus AX 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.
<b>Great Benefits</b>	A rapid return on investment 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

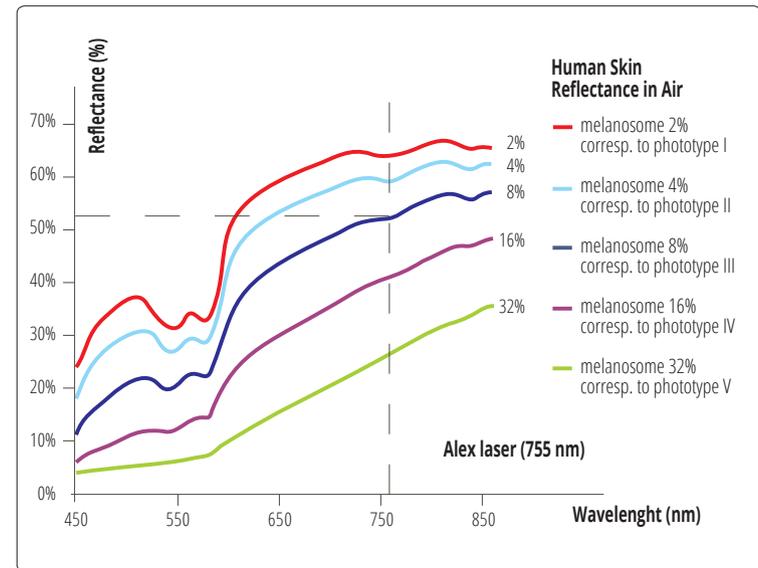
### The Effectiveness of Technological Innovation

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 Delegate

### 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 phototype, 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).



A



B

(A) Before treatment. As a precaution the doctor didn't treat the area close to the tattoo during the first session. (B) A month and a half after one treatment with **Moveo Technology**. Observe the treated area (hairless) comparing to the hair regrowth adjacent the tattoo area.  
*Courtesy of M. Troiano, M.D. and Prof. P. Bonan, M.D. - Florence, Italy*



Pictures of Asian patient, before and 8 days after only one session with the new Moveo PL handpiece.  
*Courtesy of Li Ying Lin, M.D. - Elite Clinic, Taipei-Taiwan*



A



B

Only left side was treated once using **Moveo** handpiece. The picture shows on the left side (A) the condition 5 months after one session, while the right side (B) shows the initial patient condition without any treatment.  
*Courtesy of M. Troiano, M.D. and Prof. P. Bonan, M.D. - Florence, Italy*



Pictures before and 30 days after only one session with the new Moveo PL handpiece.  
*Courtesy of Prof. G. Cannarozzo, M.D. - University of Tor Vergata, Rome, Italy*

## Technical Data

Motus AX	
Laser Type	Alexandrite
Wavelength	755 nm
Energy per Pulse	31 J (max.)
Laser Power	62 W (max.)
Number of Pulses	1 or 2
Pulse Duration	From 2 to 50 ms (single pulse) ; From 4 to 80 ms (twin pulse)
Total Pulse Length	From 2 to 300 ms
Repetition Rate	From 1 to 10 Hz
Spot Sizes (optional)	5 mm, 7 mm, 10 mm, 12 mm, 14 mm, 15 mm, 16 mm, 18 mm, 20 mm; moveo handpiece; moveo PL handpiece
Fluence	Up to 160 J/cm <sup>2</sup>
Aiming Beam	Green Diode Laser @ 532 nm < 4 mW
Emission Control	Fingerswitch or footswitch
Laser Handpiece Cooling	Integrated Skin Cooler
Dimensions and Weight	95 cm (H) x 51 cm (W) x 83 cm (D); 90 Kg
Electrical Requirements	230 Vac - single phase - 50/60 Hz - 16 A

**CAUTION** - Visible and invisible laser radiation. Avoid eye or skin exposure to direct or scattered radiation. Class 4 laser product.



This brochure is not intended for the market of USA.

**DEKA**  
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**Motus AX**

Dealer stamp



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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. 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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