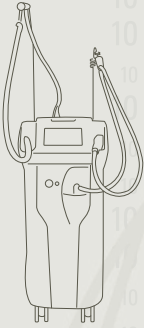


**MEDICINE AND AESTHETICS**

# Synchro REPLA:Y



**First Alexandrite at 5 Hz.  
Now Even Faster  
with Moveo  
Technology!**

**DEKA Intelligent Technologies:  
Experts from the Start**

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

**New: Alex at 5 Hz!**



**SYNCHRO REPLA:Y**



The Code of Excellence

# Synchro REPLA:Y



## THE FASTEST AND MOST POWERFUL ALEXANDRITE LASER IN THE WORLD: 5 Hz AND 125 W

Physicians worldwide agree that Alexandrite and Nd:YAG wavelengths are the most efficacious for hair removal treatments. Today DEKA anticipates the future introducing a NEW Alexandrite source: the fastest and most powerful ever created.

The fastest laser because it works up to **5 Hz** using the exclusive **Moveo Technology** and up to **3 Hz** in traditional mode, while the standard is still 2 Hz!

The most powerful laser because it reaches 125W, at least 25% more than any other laser in the market!

Aside from these increased performances Alexandrite laser source can deliver energetic pulses with pulse length under 2 ms, down to 0.2 ms. Another incredible advantage for skin rejuvenation and pigmented lesions treatments.

*"I have been a laser dermatologist for more than 15 years and started utilizing the **Synchro REPLA:Y** platform for my practice about 5 years ago. I previously used a KTP laser for vascular pathologies and a Diode laser for hair removal. I firmly believe that having more than a wavelength enables me to expand treatment indications: Alexandrite and Nd:YAG wavelengths are complementary for getting fast and safe results with any type of skin color, especially with tanned skin. Furthermore, superficial heliodermatitis and vascularities can be easily treated with pulsed light.*

*Finally, I consider **Synchro REPLA:Y** as an indispensable tool to provide the widest range of hair removal treatments, given the unrivalled power levels, speed, and spot sizes. **Synchro REPLA:Y** flexibility allows me to address patients' needs and expand my practice at once!"*

**Marc Patarin, M.D.**

*Dermatologist - Challans, France*



 **WORLD'S MOST POWERFUL SYSTEMS FOR HAIR REMOVAL**

**Synchro REPLA:Y** is a breakthrough laser platform for hair removal offering a widest range of wavelengths by using an Alexandrite laser with and without a combination of Nd:YAG laser. The benefits of **Synchro REPLA:Y** multi platform enables physicians to adapt the characteristics of Alexandrite and Nd:YAG lasers together with a flexible and optional pulsed lamp: DEKA FT source. **Synchro REPLA:Y** is a product especially designed for reaching the right range of energies and frequencies for the most effective and fastest hair removal treatment. In brief, *the top worldwide laser system for speed and power!*

DEKA is constantly seeking ways to fulfill its commitment for technical and clinical innovations.



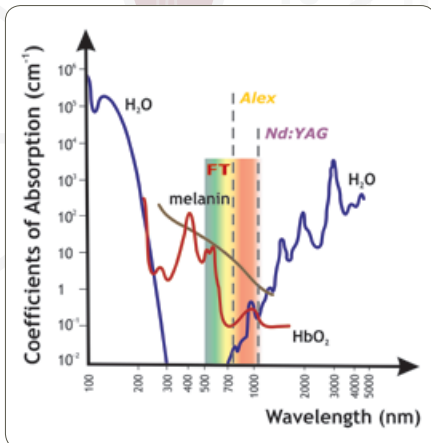
**PLUS**

<b>5 Hz</b>	The most powerful Alexandrite laser source worldwide is today even faster with the innovative <b>Moveo Technology!</b> Moreover, in traditional hair removal mode the incredible repetition rate arrives up to 3 Hz while standard is still 2 Hz! Speedier for faster treatments.
<b>125 W</b>	More power for the Alexandrite laser to reach higher fluences with new repetition rates up to 3 Hz! At least <b>25%</b> more powerful than any other system on the market!
<b>180 W</b>	More power also for the new Nd:YAG laser source, <b>40%</b> more than any other systems on the market!
<b>24 mm</b>	The largest spot size in the world for Alexandrite and Nd:YAG lasers.
<b>12+1</b>	Choose up to twelve handpieces on board for the laser sources (customized selection) besides the <b>Moveo handpiece</b> : the newest DEKA proprietary technology for even faster hair removal treatment.
<b>4</b>	Different types of source available: Alexandrite laser; Nd:YAG Long Pulse (Standard Mode Emission) laser; Nd:YAG Short Pulse (High Peak Mode of emission) laser; FT pulsed light with 10 interchangeable filters.
<b>1</b>	The first and only Alexandrite laser with fractionate pulse emission.
<b>Over 300</b>	Protocols for dermatology and aesthetic surgery.
<b>Cooling</b>	Choose between the contact skin cooling system integrated in the laser and pulsed light handpieces and the external cool-air generator with laser handpiece adapter.

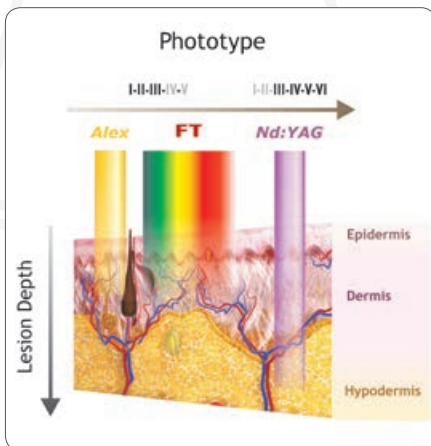
# Synchro REPLA:Y



**POWERFUL, FAST, COMPLETE: PLATFORM FOR TRUE SPECIALISTS**



Main skin chromophores absorption spectrum: melanin, water and oxyhaemoglobin.



Interaction between different wavelengths and skin layers determines the appropriate treatment choice.

**Synchro REPLA:Y** has nowadays the most powerful (125 W) and fastest (5 Hz) Alexandrite laser for the first time together with unrivalled DEKA Nd:YAG lasers characteristics (180 W - 24 mm spot size).

**Synchro REPLA:Y** offers six different configurations to meet the needs of medical clinics.

## Synchro REPLA:Y Excellium Systems

The two most powerful systems of **Synchro REPLA:Y**'s series now available with **Moveo Technology**:

- **Excellium 3.4**, the most powerful worldwide system for hair removal offering an incredible laser platform with the fastest Alexandrite laser (frequency of traditional emission up to 3 Hz where competitors are still offering 2 Hz; with Moveo up to 5 Hz) together with a 180 W Nd:YAG laser;
- **Excellium HP**, newest version of Synchro HP, a 180 W Nd:YAG laser with incredible pulse characteristics.

Both systems can work along with a large number of handpieces, from 2.5 (only for Nd:YAG) to 24 mm and the proprietary **Moveo handpiece**. Customizable treatment parameters to match patients' clinical needs and for any skin type.

## Synchro REPLA:Y Premium 2.4.2 and 1.4.2

These new Premium configurations offer the most optimal and powerful Alexandrite source (125 W) with the option of a 70 W Nd:YAG Long Pulsed laser (Model 2.4.2). Both systems are available with **Moveo Technology**:

- **Premium 2.4.2**, a combined system with the most powerful Alexandrite source (3 Hz / 5 Hz - 125 W) together with a 70 W Nd:YAG laser. For all users willing to get the maximum performances in Alexandrite hair removal and an efficient vascular Nd:YAG.
- **Premium 1.4.2**, a system offering only the most powerful Alexandrite laser (3 Hz / 5 Hz - 125 W).

## Synchro REPLA:Y One 0.7 and 1.7

These configurations allow the professional to address the demands of the patient target utilizing an high performance Alexandrite laser system (72.4 W instead of 60 W usually available) including an option of a 61J / 62 W Long Pulse Nd:YAG laser (Model 1.7).



## MOVEO TECHNOLOGY. SIMPLY EXTRAORDINARY!



The Moveo handpiece has a built-in skin contact cooling system. The sapphire tip is cooled to 15°C for maximum patient comfort.

DEKA has developed a new technology intended to revolutionise the world of laser hair removal. Moveo is an innovative idea based on 4 fundamental concepts: effectiveness, speed, simplicity and safety. The Moveo method consists of repeated passages on small areas, inducing a gradual heating of the vital parts of the hair and leading to their destruction: no undesirable side effects, no intolerable pain. Moveo uses a unique delivery system for laser energy which avoids the loss of a great amount of energy, normally reflected back off the skin surface with standard handpieces. Moveo is also cooled by a built-in chilling system for treatment without pain or even patient discomfort.



## INNOVATION AT THE SERVICE OF SIMPLICITY



FT pulsed light handpiece with 5 interchangeable filters.

### Long & Short Pulse: Enhanced Potential of the Nd:YAG Laser

The Long & Short Pulse technology offers a unique opportunity for physicians to work with two different pulse emission modes: *Standard Mode* and *High Peak Mode*. Excellent results can be achieved for patients in many applications: hair removal, vascular lesions and photorejuvenation.

### Synchro REPLA:Y with FT Pulsed Light Handpiece

The versatile FT lamp can be added to the system at any time, enhancing the user capability in treating superficial vascular and pigmented lesions. The FT lamp covers a large treatment area (6.3 cm<sup>2</sup>) which can be cooled down to 4° C. Special filters reduce the surface treatment to 3.1 cm<sup>2</sup> in order to adapt the emission to smaller areas. It takes a moment to change the filter, chosen among the 5 available ones, and adjust the emission to the specific application and patient's phototype. A complete wavelengths range at physician's fingertips.

### Total Comfort with the New Cooling System

DEKA has incorporated an extremely functional skin cooling technology in all its handpieces. The Contact Skin Cooling system *SmartCooler* is the first of its kind innovative cooling method which reduces recovery time, minimising the invasiveness of treatments and making them practically pain-free. Total comfort for the patient, maximum safety for the physician.

A special and small adapter for air cooling is also available.



Enhanced user-friendliness with easy to use colour touch screen.

# Synchro REPLA:Y



## EASE OF USE AND KNOW-HOW AT YOUR FINGERTIPS WITH THE PROTOCOL DATABASE

The clinical protocols included in the database cover a comprehensive range of treatments. By following the treatment settings validated by dermatologists and researchers, the physician can select the correct pulse parameters. In this way, the database guides professionals in the simple and safe selection of the most effective protocol.



## CLINICAL CASES



A



B

### Alexandrite Laser – Moveo Technology

Picture (A) shows the patient condition before any treatment while picture (B) shows the same patient a month and a half after only one treatment. You can clearly recognize the treated area (hairless) from the untreated contiguous to tattoo (with hair).

[Courtesy of P. Bonan, M.D. and M. Troiano, M.D. - Florence, Italy]



A

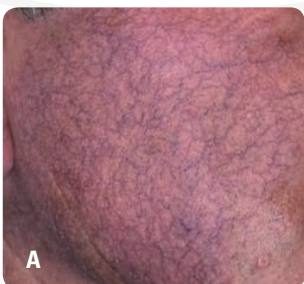


B

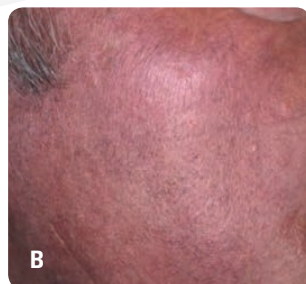
### Nd:YAG Laser – Moveo Technology

Picture (A) shows the patient condition before any treatment while picture (B) shows the same patient two months after only one treatment.

[Courtesy of P. Bonan, M.D. and M. Troiano, M.D. – Florence, Italy]



A



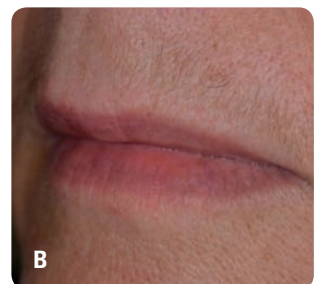
B

### Nd:YAG Laser and FT Pulsed Light

Vascular lesion. [Courtesy of F. Patarin, M.D. – Challans, France]



A



B

### Nd:YAG Laser

Lower lip senile haemangioma. [Courtesy of F. Patarin, M.D. – Challans, France]



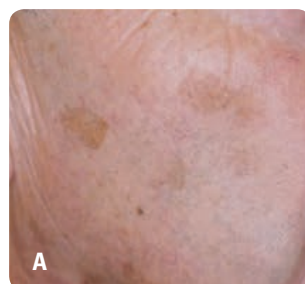
A



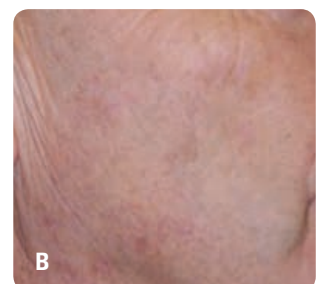
B

### FT Pulsed Light

Melasma. [Courtesy of F. Patarin, M.D. – Challans, France]



A



B

### Alexandrite Laser

Pigmented lesion. [Courtesy of F. Patarin, M.D. – Challans, France]

TECHNICAL DATA

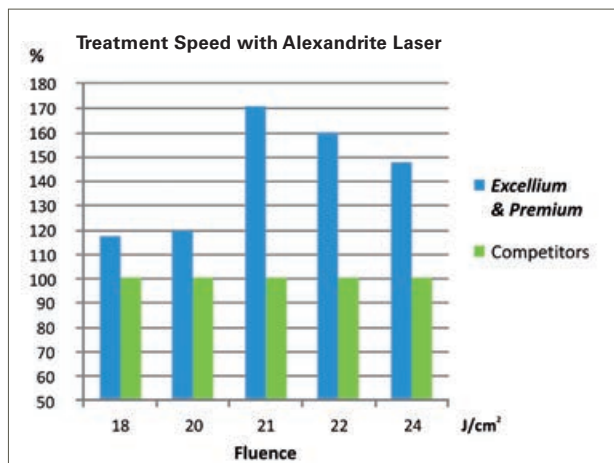
Alexandrite Laser Module			
Models	One 0.7 and 1.7	Premium 1.4.2 and 2.4.2	Excellium 3.4
Laser Type	Alexandrite		
Wavelength	755 nm		
Energy per Pulse	36.2 J (max.)	63.5 J (max.)	
Laser Power	72.4 W (max.)	125 W (max.)	
Pulse Duration	From 2 to 50 ms (single pulse) From 4 to 80 ms (twin pulse)	From 0.2 to 50 ms (single pulse) From 0.4 to 80 ms (twin pulse)	
Total Pulse Length	From 2 to 376 ms	From 0.2 to 376 ms	
Number of Pulses	1 or 2		
Repetition Rate	From 1 to 2 Hz	Up to 10 Hz	
Spot Sizes (optional)	From 5 to 16 mm (Customized Selection)	From 5 to 24 mm (Customized Selection)	
Fluence	Up to 55 J/cm <sup>2</sup>	From 2 to 250 J/cm <sup>2</sup>	

Nd:YAG Laser Module			
Models	One 1.7	Premium 2.4.2	Excellium 3.4 and HP
Laser Type	Nd:YAG		
Wavelength	1064 nm		
Energy per Pulse	61 J (max.)	70 J (max.)	120 J (max.)
Laser Power	62 W (max.)	70 W (max.)	180 W (max.)
Pulse Duration	From 0.6 to 10 ms (High Peak Mode) From 2 to 50 ms (Standard Mode)	From 0.2 to 10 ms (High Peak Mode) From 2 to 30 ms (Standard Mode)	0.2 – 10 ms (high peak) 2 – 50 ms (standard)
Delay between Pulses	From 10 to 125 ms		
Total Pulse Length	From 0.6 to 260 ms (High Peak Mode) From 2 to 300 ms (Standard Mode)	From 0.2 to 260 ms (High Peak Mode) From 2 to 280 ms (Standard Mode)	From 0.2 to 260 ms (High Peak Mode) From 2 to 300 ms (Standard Mode)
Number of Pulses	Up to 3		
Repetition Rate	From 0.3 to 10 Hz		
Spot Sizes (optional)	From 2.5 to 16 mm (Customized Selection)	From 2.5 to 20 mm (Customized Selection)	From 2.5 to 24 mm (Customized Selection)
Fluence	Up to 700 J/cm <sup>2</sup>	Up to 1,400 J/cm <sup>2</sup>	Up to 1,500 J/cm <sup>2</sup>

Unrivalled Treatment Speed\*

The new **Synchro REPLA:Y** offers the highest treatment speeds on the market. The graph illustrates the differences between the treatment speed for each Alexandrite REPLA:Y system at fixed fluence.

(\* "Treatment speed" is defined as the ability of a hair removal system to cover a surface in one minute. Take in consideration that a whole leg has an average surface of 3,000 cm<sup>2</sup>.



Unrivalled Treatment Fluences

**Synchro REPLA:Y** offers the highest treatment fluences in the laser market. The following table shows the maximum fluence per spot size.

	Maximum Laser Fluence per Spot Size (J/cm <sup>2</sup> )				
	Alex		Nd:YAG		
	0.7 1.7	1.4.2 2.4.2 3.4	1.7	2.4.2	3.4 HP
2.5 mm	NA	NA	700	1,400	1,500
5 mm	55	250	300	350	600
7 mm	55	165	150	180	300
10 mm	45	81	76	90	150
12 mm	31	56	53	60	105
14 mm	23	41	39	45	77
15 mm	20	36	34	40	67
16 mm	18	32	30	33	60
18 mm	NA	25	NA	27	46
20 mm	NA	20	NA	22	38
22 mm	NA	16	NA	NA	31
24 mm	NA	14	NA	NA	26

## TECHNICAL DATA

### Moveo Handpiece (Optional Available only for Premium and Excellium Models)

<b>Laser Type</b>	Alexandrite (main recommendation) Also suitable for Nd:YAG
<b>Wavelengths</b>	755 nm (main recommendation) 1064 nm
<b>Fluence Range</b>	Up to 8 J/cm <sup>2</sup>
<b>Frequency</b>	Up to 10 Hz
<b>Pulse Structure</b>	3 simple pulses: Soft, Medium, High
<b>Sapphire Tip Diameter</b>	20 mm
<b>Software</b>	Integrated clinical database
<b>Laser Handpiece Cooling</b>	Integrated contact skin cooling
<b>Weight</b>	approx. 280 g.

### General System Specifications

<b>Models</b>	Premium 2.4.2 and 1.4.2, Excellium 3.4 and HP
<b>Aiming Beam for Lasers</b>	Green Diode Laser @ 532 nm - 4 mW
<b>Emission Control</b>	Fingerswitch or footswitch
<b>Laser Handpiece Cooling</b>	Integrated Skin Cooling
<b>Protocols Database</b>	More than 300
<b>Dimensions</b>	120 (H) cm x 49 (W) cm x 100 (D) cm
<b>Weight</b>	150 kg
<b>Electrical Requirements</b>	230 Vac - single phase - 50/60 Hz; 32 A

### FT Pulsed Light Handpiece (Optional for All Synchro REPLA:Y Models)

<b>Source</b>	Xe Lamp
<b>Spectrum of Emission</b>	500G (500-680 nm & 850-1200 nm) only for Premium and Excellium Models; 500-1200 nm only for One Models; 520-1200 nm; 550-1200 nm; 600-1200 nm; 650-1200 nm.
<b>Energy per Pulse</b>	156 J (max.)
<b>Pulse Duration</b>	From 3 to 8 ms
<b>Delay between Pulses</b>	From 5 to 50 ms
<b>Total Pulse Length</b>	From 3 to 124 ms
<b>Number of Pulses</b>	Up to 3
<b>Repetition Rate</b>	2 seconds (min.)
<b>Treatment Area</b>	48 x 13 mm (6.2 cm <sup>2</sup> ) 23 x 13 mm (3.0 cm <sup>2</sup> ) (Optional)
<b>Fluence</b>	Up to 25 J/cm <sup>2</sup>
<b>Skin Cooling</b>	Integrated Sapphire Cooling

This brochure is not intended for the market of USA.

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

#### CAUTION

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

CE  
0459



The Code of Excellence

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Dealer stamp



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#### DEKA The Code of Excellence

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, Germany, 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, certified by  in accordance with the ISO 9001 and ISO 13485 standards.