Fotona
choose perfection

60 1964 2024
years of innovation



The Ultimate Hair Removal System

AvalancheLase®

Committed to Engineering
The Highest Performance, Best Made Laser Systems in the World

AvalancheLase®

- Combined power of **Alexandrite (755 nm)** and **Nd:YAG (1064 nm)** laser wavelengths

2 in 1
Two Laser Sources

- **ASP-powered technology** adapts laser pulse shapes to the biophotonic dynamics of individual treatments
- **Exceptional speed** for faster patient turnover and increased revenues
- **Largest spot size and scan area** for more effective procedures
- **CoolMist™ – Integrated DMC™ Cooling Technology** technology integrated into the handpieces and scanners for increased epidermal protection and patient comfort
- **Dual-wavelength handpiece and scanner** for greater convenience in use
- **MatrixView® skin temperature monitor** conveniently displayed on the system screen for increased efficacy and control
- **Avalanche effect*** delivers consecutive laser pulses for enhanced effectiveness and faster treatments
- **Green pointer** for increased visibility



ASP POWERED
Adaptive Structured Pulse

*Scan this QR code to read more about the Avalanche effect

Avalanche FRAC3® Nd:YAG Laser Hair Removal
Journal of the Laser and Health Academy Vol. 2013, No.1

Superior hair removal system
with additional aesthetic laser treatments



Fotona's high-performance Nd:YAG and Alexandrite wavelengths provide highly effective hair removal with maximum patient comfort and safety. The laser's unique ability to selectively and efficiently target hair follicles means that surrounding tissues remain unaffected.

The expanded treatment range of AvalancheLase® enables additional opportunities to provide highly sought-after non-invasive treatments in aesthetics and dermatology, allowing you to increase revenues while offering more to your patients.

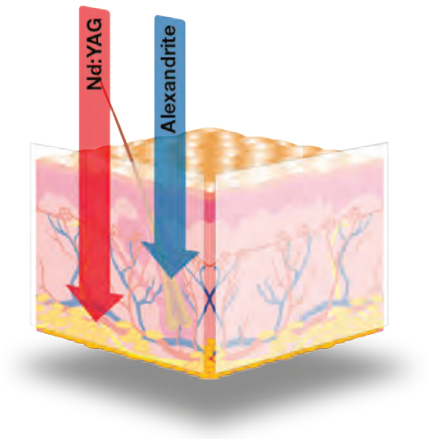
Treatments:

- **Hair Removal**
- **Vascular Treatments**
- **Rosacea**
- **Facial & Leg Veins**
- **Body Sculpting**
- **Skin Tightening**
- **Active Acne**
- **Onychomycosis**
- **Warts**
- **Pigmented Lesions**

Two wavelengths in one system
Alexandrite (755 nm) and Nd:YAG (1064 nm)

Fotona's AvalancheLase® platform offers two powerful aesthetic wavelengths in one system: Alexandrite (755 nm) and Nd:YAG (1064 nm). This uniquely effective wavelength combination enables selective targeting of specific tissue structures to provide non-invasive, walk-in/walk-out treatments with high success rates and greater patient satisfaction. Treatments can also be tailor made according to specific patient needs, sensitivity and skin type (suitable also for darker skin types).

AvalancheLase® perfectly combines the most innovative technological solutions and convenience in use. Extremely safe, fast and effective dual-wavelength treatments can be performed using only one accessory, without the need for using separate handpieces or scanners for each wavelength.



LX-Runner scanner
for optimal coverage and speed

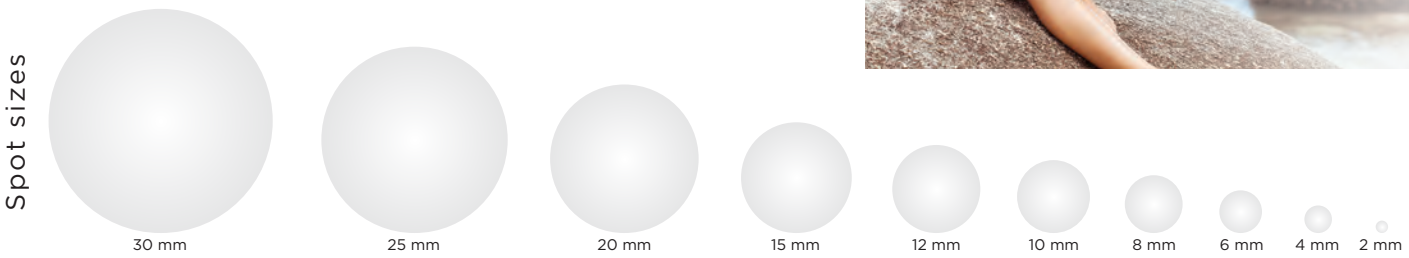


- The perfect tool for treating larger areas
- Dual-wavelength compatible
- The largest scan area on the market – up to 64 cm²
- Available with 9 and 11 mm spot sizes
- Integrated in the Scanner: DMC™ Cooling and MatrixView®

Ultimate power
for ultimate speed

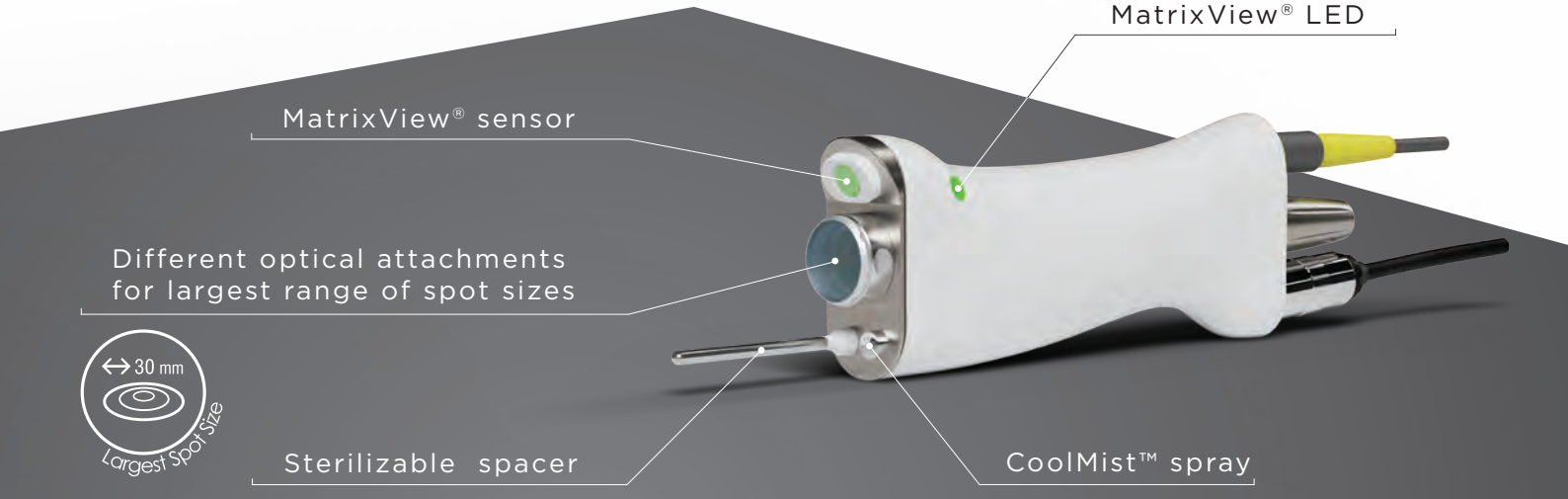


The superior power of AvalancheLase® technology allows the system to generate **extremely large spot sizes** (30 mm) and **exceptionally high frequencies**. Optimal speed combined with a wide range of spot sizes in a single handpiece assures shorter treatment times, allowing practitioners to manage patient turnover quickly and increase revenues.



R35X Handpiece
innovative solutions for convenience in use

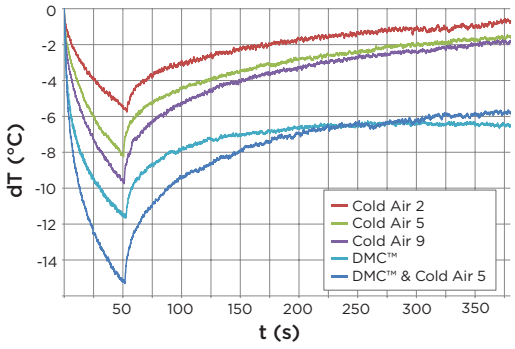
- Modern lightweight design
- One handpiece transmits two wavelengths
- Different optics options for different spot sizes (2, 4, 6, 8, 10, 12, 15, 20, 25 and 30 mm)
- Integrated DMC™ Cooling Technology* and MatrixView® thermal sensor

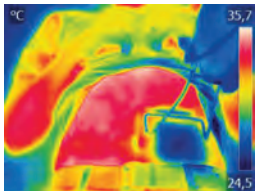


* For a greater cooling effect, a special cold air cooling adapter is available. It can also be used without dry spray.

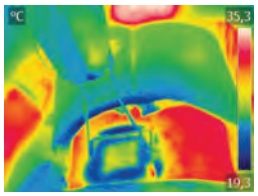
CoolMist™ Cooling
for maximum safety and comfort

With Fotona's patent-pending **Dry Spray Molecular Cooling Technology (DMC™)** integrated into the handpieces and scanner, there is no need for an additional cold-air cooling device, lowering investment costs.
This revolutionary technology improves comfort and enhances safety – the system uses room temperature air and water so there is no risk of cryo-injury by over-cooling the skin.





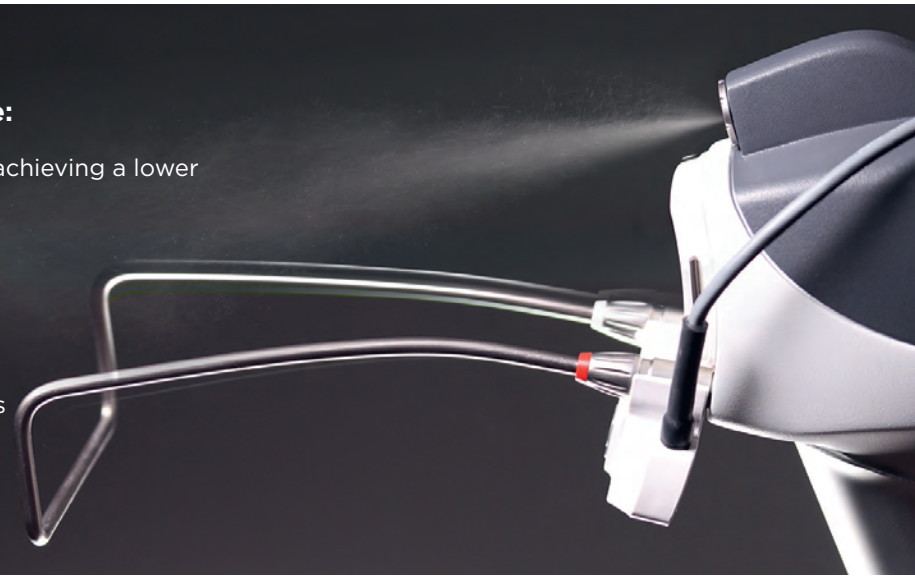
Large area homogeneous skin cooling with CoolMist™



Scanned laser irradiation in combination with CoolMist™

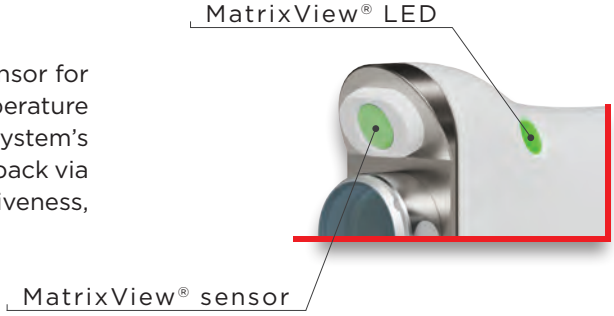
The benefits of CoolMist™ cooling include:

- Provides more effective cooling of the skin, achieving a lower temperature faster
- Non-contact, homogeneous cooling for small and large skin areas, including large scanner treatments
- One container of demineralized water (0.7 L) lasts for a full-day of laser procedures
- Eliminates odor



MatrixView®
for optimal efficacy and control

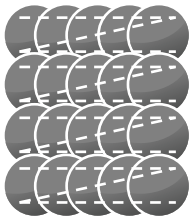
Fotona's MatrixView® unit is a non-contact skin temperature sensor for AvalancheLase® that carefully monitors the patient's skin temperature during procedures. MatrixView® is integrated with the system's handpieces and scanners, providing continuously updated feedback via the laser system's user interface display to ensure greater effectiveness, safety and control during treatments.





Avalanche effect
for excellent speed and comfort

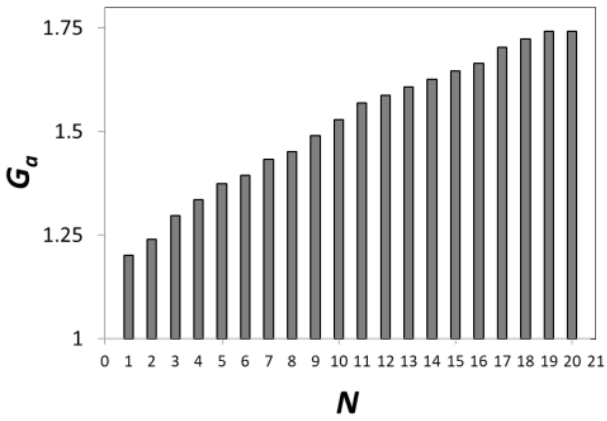
- Innovative, multi-pass, low-fluence modality for hair removal
- Fast and virtually painless
- Safe for all skin types



Avalanche effect pattern

The AvalancheLase's modes are based on the discovery of an "avalanche" effect leading to an increasingly enhanced absorption of laser light in the treated hair following each successively delivered laser pulse. The avalanche process continues until the absorption is high enough for the hair to get damaged.
The multi-pass, low-fluence modes of AvalancheLase thus enable extremely effective, patient-friendly hair removal treatments.

The Avalanche effect improves speed and comfort as well as ease of use.



Successively enhanced absorption in hair during the delivery of the multiple-pulse AvalancheLase mode.



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THE HIGHEST PERFORMANCE, BEST MADE LASER SYSTEMS IN THE WORLD

since 1964

Models	AvalancheLase® LXP (Alexandrite + Nd:YAG)	
	AvalancheLase® LX (Alexandrite)	AvalancheLase® XP (Nd:YAG)
Wavelength	755 nm	1064 nm
Modalities	ACCELERA VERSA PIANO AVALANCHE	FRAC3 VERSA PIANO AVALANCHE
Scanner	LX Runner – large scan area up to 64 cm^2 Two spot sizes: 9 and 11 mm	
Scanner speed	Up to 60 Hz	
Avalanche mode	Multi-pass, low-fluence modality for greater comfort	
Handpiece and scanner wavelength	Dual-wavelength compatible	
Spot sizes	2, 4, 6, 8, 10, 12, 15, 20, 25, 30 mm	
Fluence	Up to 600 J/cm^2	
Cooling system	DMC™ (Dry Spray Molecular Cooling)	

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For related patents see: www.fotona.com/patents

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