



 **R-EVO smart**  
OPHTHALMIC EQUIPMENT

Smart  
technology  
Smart  
investment



A smart synthesis of advanced technologies, functionality and reliability.

R-Evo smart<sup>®</sup> is a compact platform for cataract and retinal surgery, available in three different models that combine outstanding performance with innovative features.

The device boasts an easy-to-use touchscreen and a user-friendly GUI, as well as a super simple set-up, for everyday cost-effectiveness.



# PREDICTIVE FLUIDICS

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The R-Evo smart® fluidics is based on two high-efficiency pumps, equipped with high flow rate and vacuum values and managed using easy assembly disposable I/A cassette.

The flow-based peristaltic pump is powered by a latest generation stepper motor for faster and smoother rotor action. An optimized roller design eliminates any fluctuation.

The vacuum-based Venturi pump improves system control and flexibility in all surgical techniques in both cataract and retinal surgeries (R-Evo smart® S and R-Evo smart® CR).



## ADVANCED INFUSION SYSTEM

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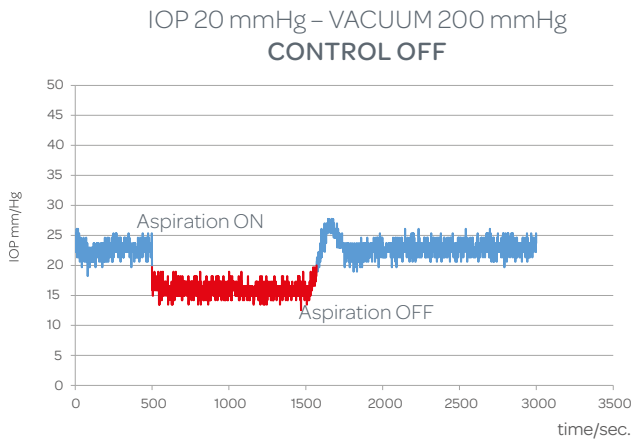
The R-Evo smart® offers two different infusion options: the integrated programmable IV pole gravity fed and the microprocessor-controlled active infusion.

Unlike the traditional one, the microprocessor-controlled active infusion system guarantees a faster reaction time to aspiration flow variation, fixing IOP pressure levels.

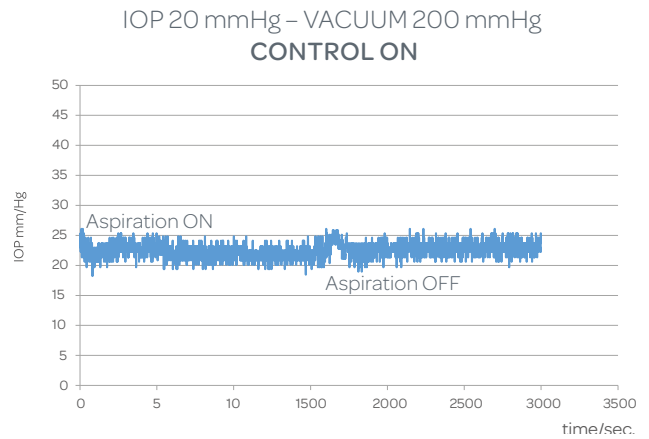
# DYNAMIC IOP CONTROL SYSTEM

Designed to ensure maximum chamber stability and patient safety.

Dynamic IOP Control can maintain constant intraocular pressure, eliminating the risks of high pressure and surges.

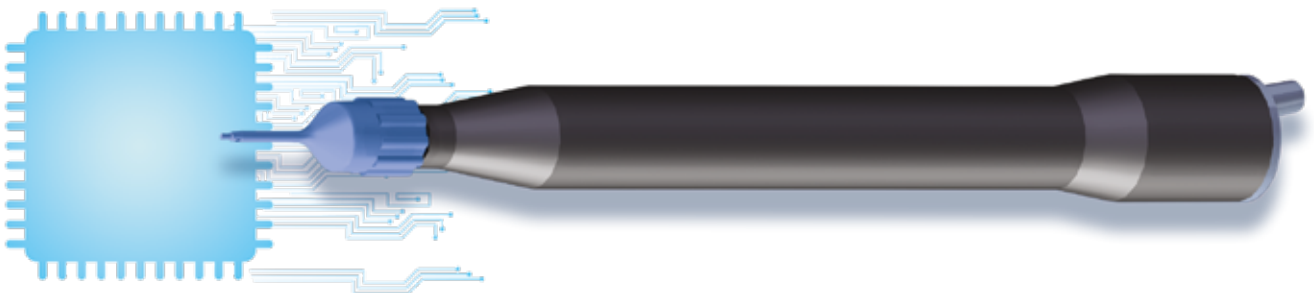


The chart shows IOP fluctuations under active aspiration without a IOP control system



The chart shows a constant IOP value, even under active aspiration, with the Dynamic IOP Control System

Reference: Data on file, Optikon



## MINIMAL STRESS TECHNOLOGY

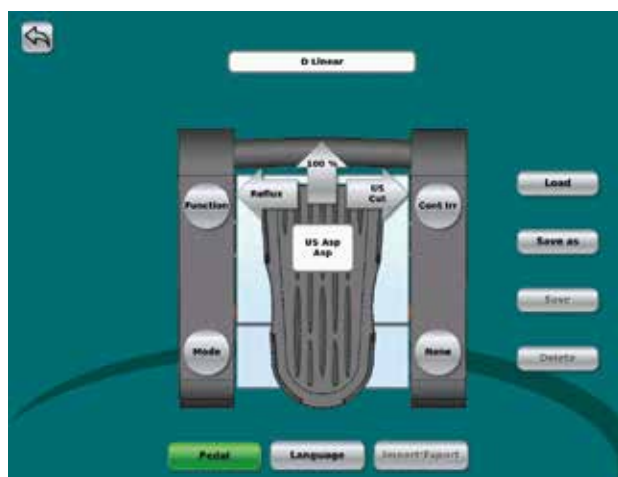
Measuring the actual phaco tip stroke during surgery, the patented Minimal Stress technology minimizes the energy delivered to the eye for a safer and more efficient surgery and faster patient rehabilitation.



# LED LIGHTING SYSTEM

The complete R-Evo smart® CR unit is equipped with two independent, high-efficiency LED light sources, free of harmful UV and IR emissions.

The LED lighting system allows surgeons to perfect tissue visualization and guarantees the maximum protection against phototoxicity.

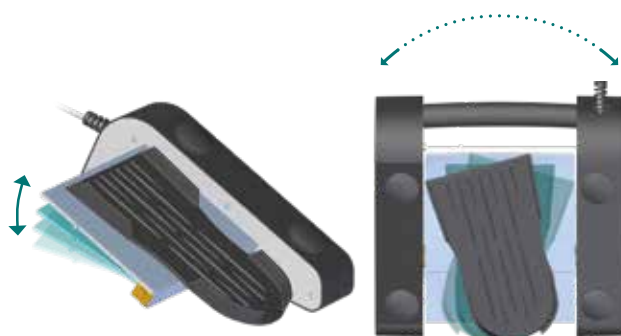


## FULL CONTROL FOOTPEDAL

Engineered for complete control, flexibility and comfort, the R-Evo smart® footpedal offers a wide range of programmability, precise performance and the highest level of safety.

Single linear

Dual linear



Simultaneous linear control of two different system functions with smooth up-and-down and simple left-to-right movements.

# Technical Specifications

	R-EVO smart E	R-EVO smart S	R-EVO smart CR		R-EVO smart E	R-EVO smart S	R-EVO smart CR
<b>FLUIDICS</b>				<b>ILLUMINATION</b>			
Pressure Controlled Infusion	●	●	●	2 Independent HID LED Sources	-	-	●
Dynamic IOP Control	●	●	●	Phototoxicity Filters	-	-	●
Reflux	●	●	●	Colour Enhancing Filters	-	-	●
Auto Venting	●	●	●	Spot, WA, Shielded WA Fiber Optics	-	-	●
Disposable Unique I/A Cassette	●	●	●	20Ga, 23Ga, 25Ga, 27Ga	-	-	●
Peristaltic Pump	●	●	●	Multiple Ga Chandelier	-	-	●
Venturi Pump	-	●	●	<b>AIR</b>			
Linear/Panel Control	●	●	●	Air/Liquid Replacement	-	-	●
<b>PHACOEMULSIFICATION</b>				Footpedal Activation/Deactivation			
Minimal Stress U/S Phaco	●	●	●	Electric Pump	-	-	●
Four Crystal U/S Handpiece	●	●	●	Automatic Stopcock	-	-	●
Six Crystal U/S Handpiece	●	●	●	<b>TAMPONADES (FLUIDS)</b>			
U/S Emission Modes: Continuous, Burst, Micro Duty Cycles Pulsed	●	●	●	Injection 0.4 -5 bar	-	-	●
HD Pulse (Occlusion Mode)	●	●	●	Removal up to 650 mmHg	-	-	●
Autolimit (Occlusion U/S Power Limit)	●	●	●	Simultaneous Active Aspiration	-	-	●
Straight, Bent Phaco Tips 19Ga, 20Ga, 21Ga, 22Ga	●	●	●	Linear/Panel Control	-	-	●
Linear/Panel Control	●	●	●	<b>DIATHERMY</b>			
<b>ANTERIOR VITRECTOMY</b>				Eso Diathermy			
Twedge™ Dual Blade Cutter 23Ga, 25Ga, 27Ga	●	●	●	Endo Diathermy	-	-	●
Cutting Rate up to 1,000 cuts/min (2,000 cuts/min with Twedge™ Technology)	●	-	-	Eso Diathermy Instruments	●	●	●
Cutting Rate up to 5,000 cuts/min (10,000 cuts/min with Twedge™ Technology)	-	●	●	Endo Diathermy Disposable Probes 23Ga, 25Ga, 27Ga	-	-	●
Linear/Panel Control	●	●	●	Linear/Panel Control	●	●	●
<b>POSTERIOR VITRECTOMY</b>				<b>FOOTPEDAL</b>			
Twedge™ Dual Blade Cutter 23Ga, 25Ga, 27Ga	-	-	●	Simultaneous Dual/Single Linear Control	●	●	●
Cutting Rate up to 10,000 cuts/min	-	-	●	<b>TROLLEY</b>			
Single Cut	-	-	●	Integrated IV Pole	●	●	●
Endo Phaco	-	-	●	Integrated Tray	●	●	●
Linear/Panel Control	-	-	●				

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