



 **R-EVO smart**
OPHTHALMIC EQUIPMENT

Smart
technology
Smart
investment



A smart synthesis of advanced technologies, functionality and reliability.

R-Evo smart[®] 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

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

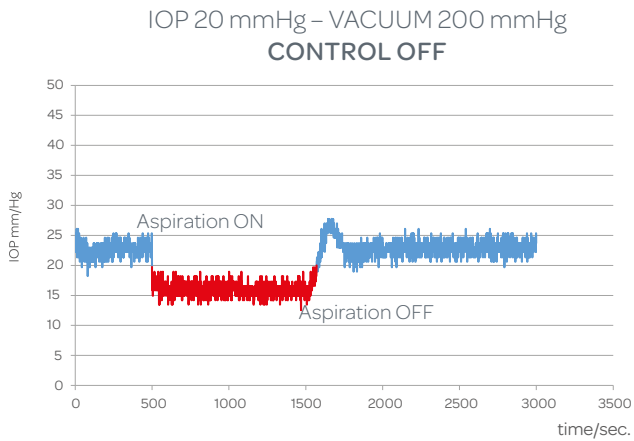
The R-Evo smart® offers two different infusion options: the integrated programmable IV pole gravity fed and the microprocessor-controlled active infusion.

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

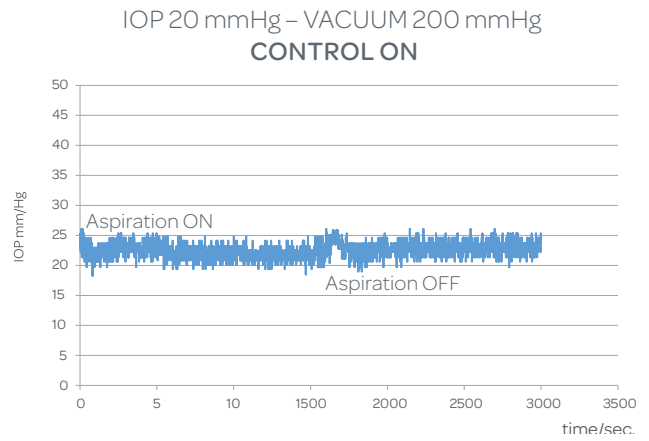
DYNAMIC IOP CONTROL SYSTEM

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.

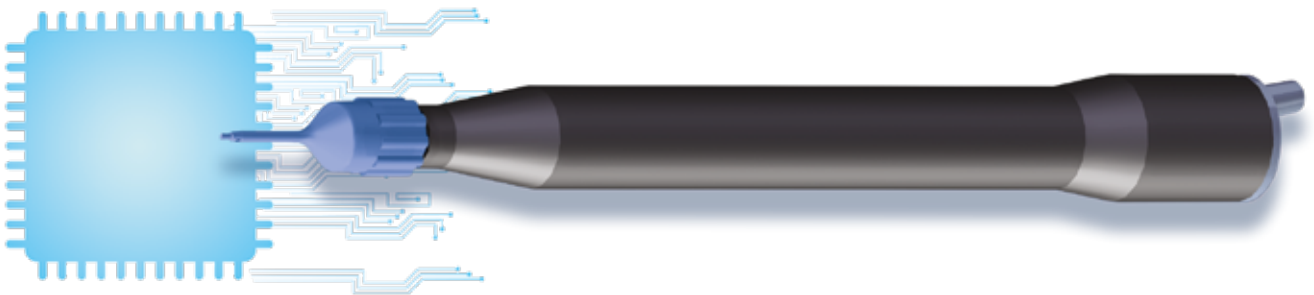


The chart shows IOP fluctuations under active aspiration without a IOP control system



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

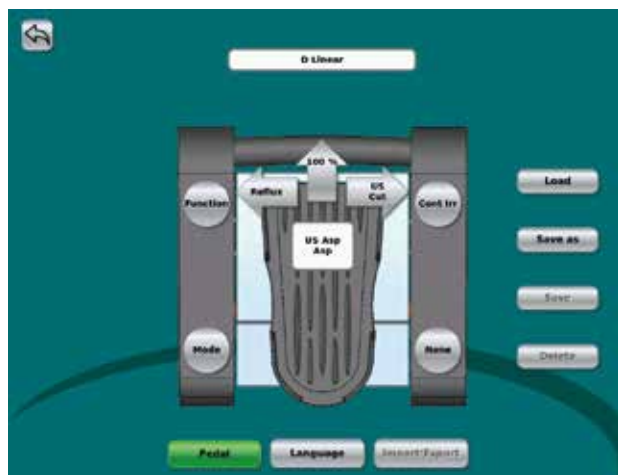
Measuring the actual phaco tip stroke during surgery, the patented Minimal Stress technology minimizes the energy delivered to the eye for a safer and more efficient surgery and faster patient rehabilitation.



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.

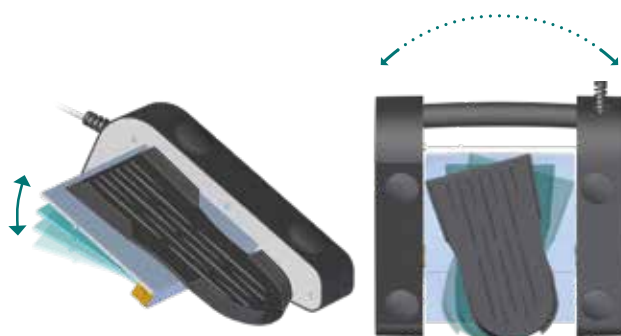


FULL CONTROL FOOTPEDAL

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

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