

Items	Technical Parameters
System Overview	Functions such as phacoemulsification, irrigation, aspiration, anterior vitrectomy, and electrocoagulation
	Rapid one-touch irrigation/tune
	10.1-inch high-definition color touch screen with voice prompt
	Capable of storing 240 sets of parameters for 30 doctors
Ultrasound System	Multiple energy output modes including burst, pulse, and continuous.
Vacuum/Fluidic Management System	Maximum vacuum: 650 mmHg
	The automatic lifting pole height ranges: 30 to 110cm, and with the extension pole, it can reach a height of 60 to 140cm
	Aspiration flow: 0-60 cc/min
Phacoemulsification Handpiece	Frequencies of phacoemulsification handpiece: 30KHz and 40Khz
	Phacoemulsification handpiece with a built-in vacuum pressure sensor
Tips Design	It comes with metal straight and metal bend tips as well as plastic tips
Anterior Vitrectomy	Pneumatic vitrectomy with a cutting rate of 10-1200 cpm and a double vitrectomy cutter rate of 2400
Electrocoagulation Mode	Bipolar electrocoagulation with fixed and linear electrocoagulation modes, and with a power of 0-10 W

Innolcon Medical Technology

Innolcon Medical Technology Co., Ltd. has applied for more than 166 Chinese patents and nearly 47 international patents. With its R&D team and core technologies focusing on ultrasound energy platforms, electrosurgical energy platforms, ophthalmic devices, and minimally invasive surgery robots, Innolcon devotes itself to the research, production, marketing, and services of high-end ultrasound, energy surgical, ophthalmic and laparoscopic surgical robot systems, and high-value consumables. It stands as a leader in this field in terms of technology and products in China.



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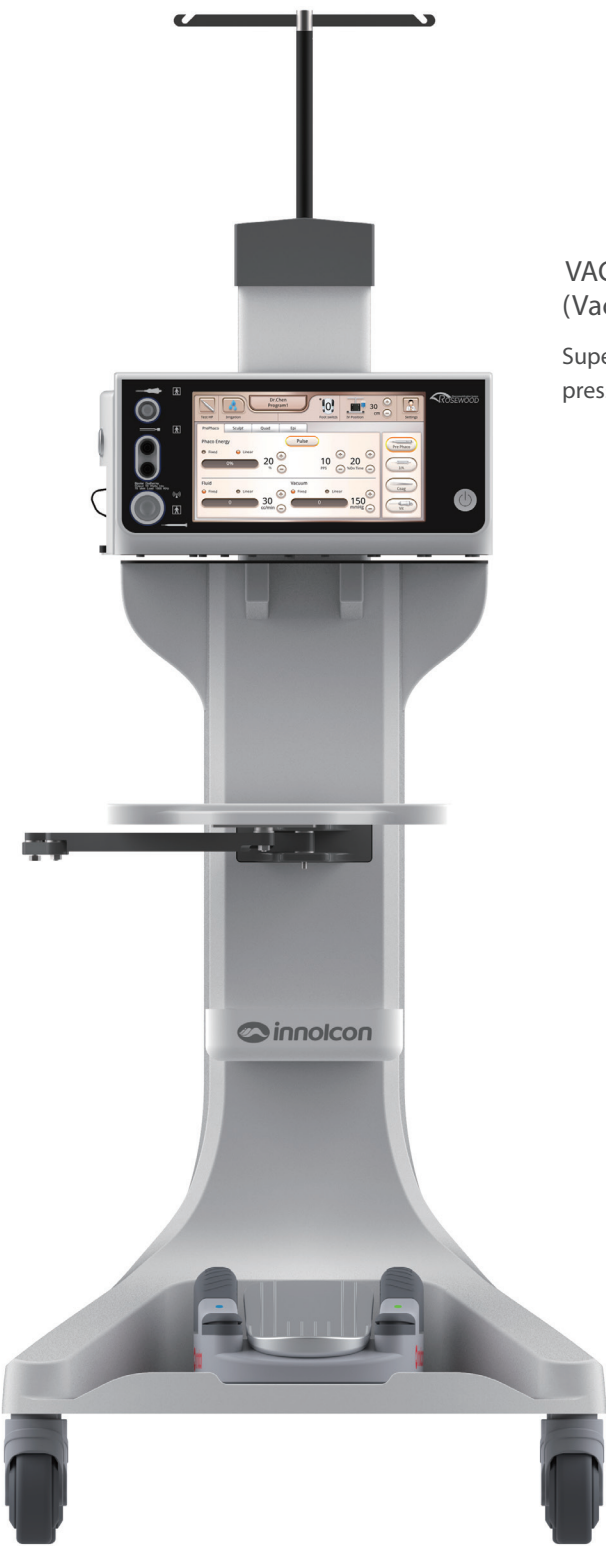
Excellent Phacoemulsification

INNOLCON OPHTHALMIC

PHACOEMU
LSIFICATION
SURGICAL
SYSTEM



Innolcon Ophthalmic Phacoemulsification Surgical System



VACSEN® Handpiece (Vacuum sensing)

Superior surge protection and rapid vacuum pressure reaction speed



MinPOS® tips/perfusion sleeve module (Minimized Post Occlusion Surge)

The new type of tip can significantly improve the efficiency and safety of surgery, facilitating safer micro-incision.



Low frequency resulting in minimal heat generation (Low Frequency)

Significantly reduce thermal damage and damage to the cornea

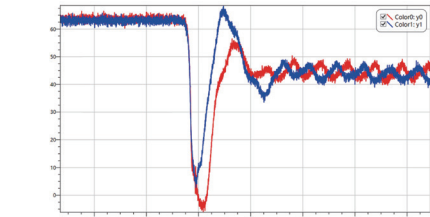


Safe and efficient fluid control software

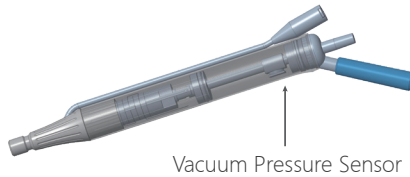


Dual vacuum pressure sensors allowing for stable anterior chamber and providing double protection

The VACSEN® phaco handpiece' s vacuum pressure sensor and the FMS's vacuum pressure sensor continuously monitor the rate change of vacuum pressure, preventing significant vacuum pressure fluctuations in the aspiration tube and maintaining anterior chamber stability;



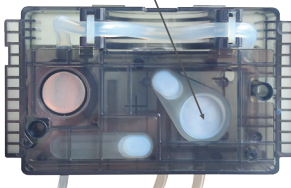
From the diagram, surges can be detected and effectively controlled by surge control device with the handpiece sensor.



Irrigation Pressure Sensor

When the irrigation pressure is too low, an alarm will be triggered to remind the surgeon to check if the irrigation tubing is blocked or leaking and if there is any solution left in the irrigation bottle. The sensor's elasticity can also mitigate the impact generated when the irrigation liquid enters, maintaining anterior chamber stability;

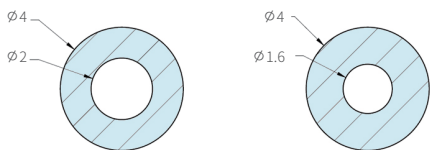
Irrigation Pressure Sensor



Small-diameter hard tube

Faster rise of vacuum pressure;

The lower the hardness of the tubing, the less likely it is for tubing collapse to occur when the phacoemulsification tip is blocked and vacuum pressure increases, which helps reduce the occurrence of surges;



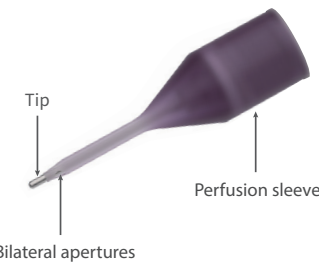
According to, $q_v = \frac{\pi d^4 \Delta p}{128 \mu l}$

the laminar flow formula for the tube, the flow rate in a tube with a diameter of 2mm is 2.44 times that of a tube with a diameter of 1.6mm



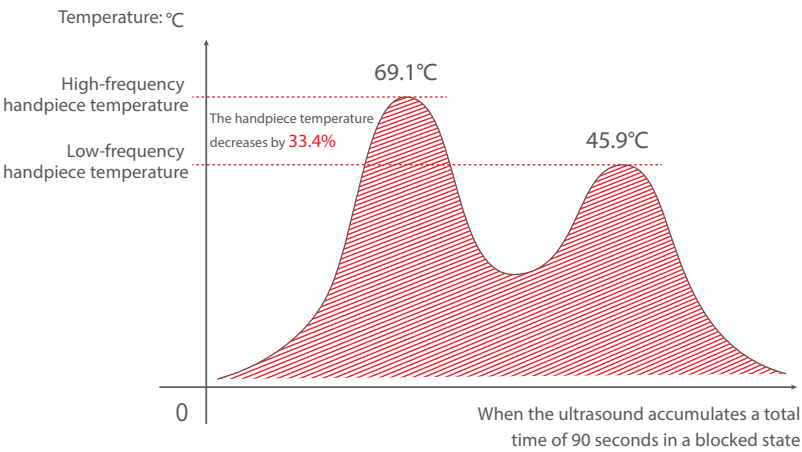
MINPOS® tip/perfusion sleeve module

The size and structure of the phaco tip and perfusion sleeve are perfectly matched, avoiding leakage at the front end, enhancing easy movement of the tip following cataract lens nucleus; optimizing the bilateral aperture of the perfusion sleeve to ensure an adequate irrigation flow even for micro-incision surgery, maintaining anterior chamber stability, and effectively reducing tip temperature to avoid tissue thermal damage.



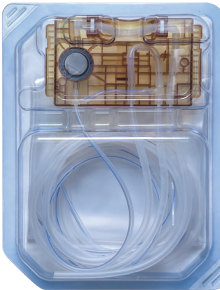
Temperature-controlled low-frequency handpiece

- Accurate energy control
- Low energy allows for efficient cataract removal
- Low heat production, minimal damage



Economical and durable consumables

The fluidic system is equipped with disposable and reusable FMS, ensuring stability and efficiency while significantly reducing surgical costs.



Various types of tips

