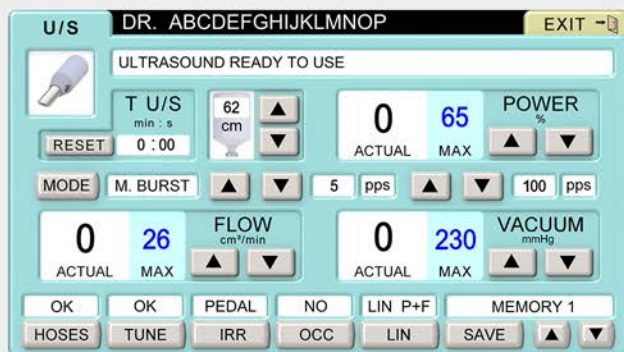


OPTIMUS II

PHACOEMULSIFICATION SYSTEM



 **Micromédica Epsilon**



- Friendly touch screen to adjust parameters
- Fast identification of functions due different colors
- Help screens available during surgery
- Advanced features compatible with the most modern techniques

- Excellent stability of anterior chamber during surgery
- Pneumatically powered guillotine cutter for vitrectomy
- Programmable memories settings for all parameters
- Personalized set of memories up to 6 users plus 1 of general use
- Selectable language (Spanish, English and Portuguese)
 - Great portability due to its small size and weight
 - Automated I/V pole interface (optional)



MULTIFUNCTIONAL PEDAL

- Programmable pedal
- Vibrational signal to indicate U/S delivery
- Allows selection of functions and memories



Technical Specifications

U/S Ultrasound		
Handpiece type	Four crystal handpiece	
Operating frequency	38 kHz to 40 kHz	
Power range	From 0 to 100 %	
Irrigation	Gravity fed	
Aspiration pump	Peristaltic	
Flow rate	From 0 to 50 cm ³ /min	
Vacuum	From 0 to 500 mmHg.	
Linearity	Linear power, linear flow, linear power and flow	
Power modes	Continuous	From 0 to 100 % power
	Pulse	From 5 to 100 pps
	Single burst, allows for surgeon control of pulse width in phaco power	From 5 to 100 ms
	Multi burst	From 5 to 100 pps
	Cold phaco, allows for surgeon control of both the on time and the off time of the phaco pulse	On time from 2 to 80 ms, off time from 0 to 80 ms
Prime/tune	Automatically primes system and tunes ultrasonic handpiece	

I/A Irrigation/Aspiration		
Handpiece type	Coaxial or bimanual	
Irrigation	Gravity fed	
Aspiration pump	Peristaltic	
Flow rate	From 0 to 50 cm ³ /min	
Vacuum	From 0 to 500 mmHg.	
Linearity	Panel and linear flow	

VIT Vitrectomy		
Handpiece type	Pneumatically powered guillotine cutter	
Cutting mode	Guillotine	
Cut rate	From 20 to 400 cuts per minute	
Actuation device	Internal air compressor	
Operating pressure	20 psi	
Irrigation	Gravity fed	
Aspiration pump	Peristaltic	
Flow rate	From 0 to 50 cm ³ /min	
Vacuum	From 0 to 500 mmHg	
Linearity	Panel and linear vacuum	

CAUT Cautery		
Type	Bipolar generator	
Operating frequency	100 kHz	
Nominal power	5 W (600 Ohm load)	
Power range	From 0 to 100 %	
Linearity	Panel and linear power	

Dimensions		
Height/width/depth/weight console/weight pedal	160 mm, 380 mm, 305 mm, 10 kg, 3kg	



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