

# evo NEXUS

Phaco-Vitrectomy System



## Specifications

## Graphical User Interface

- 19 inch touch screen (1280x1024)
- Programmable up to 24 surgeons and 24 procedures
- Voice and audio feedback
- Languages: en/de/fr/it/es/pt/nl/sv/no/da/fi/pl/hu/cs/sk\*/ru/el/tr/ja/ko/th
- Integrated stylus holder
- IR remote control

## Wireless Footswitch

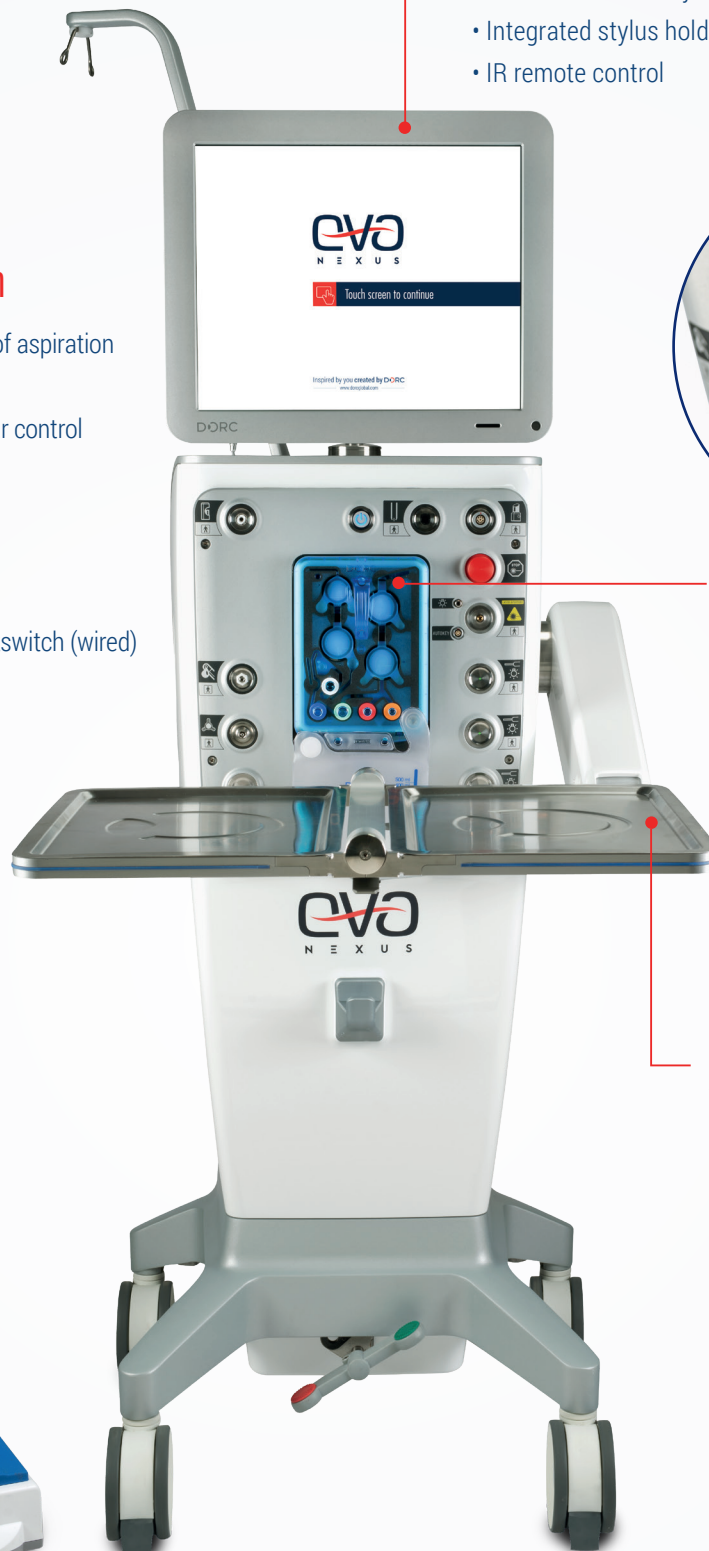
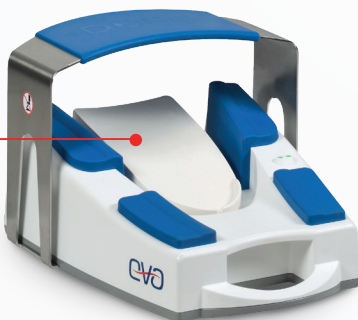
- Independent linear control of aspiration and instruments
- Vertical and horizontal linear control
- Integrated laser control
- 6 programmable buttons
- 4 customizable inlays
- Pedal horizontal lock
- Optional separate laser footswitch (wired)



## VacuFlow VTi technology

## Mayo tray (optional)

- Mountable on left or right side
- Variable Height: 90 +/- 15 cm
- Tray: 42 x 63.5 cm
- Various configuration options



\*planned Q2 2022

## Fluidics

- 1x infusion input port
- Single cartridge for anterior, posterior or combined procedures
- 2x irrigation / infusion ports
- 2x aspiration ports

### Infusion System

- Irrigation/infusion pressure: 0-150 mmHg
- Irrigation/infusion modes:
  - Fixed: pressure is regulated to a fixed value
  - AIC: pressure is controlled to maintain target IOP, compensating for aspiration flow
  - SMART IOP\*: pressure is controlled automatically to maintain target IOP, taking into account pressure losses of selected instruments
- Programmable Fluid Alternate Pressure function\*\*
- Compatible with different sizes and containers of BSS
- BSS volume indication with low level warnings

*\*only for Phaco*

*\*\*only available for Equiphaco needles and sleeves*

### VacuFlow VTi technology

- Advanced fluid control system (Valve Timing Intelligence)
- Flow mode: nominal flow 0 to 90 ml/min; vacuum limit 0 to -680 mmHg\*
- Vacuum mode: 0 to -680 mmHg\*; rise time 300 ms\*\*
- Auto-threshold: automatic alternate vacuum setpoint when full occlusion is detected

*\*@sea level*

*\*\*measured step 0 to 650 mmHg @ 0 cc/min*

### Backflush

- Micro Backflush (Reflux) with 3 selectable levels: Small, Medium, Large
- Manual Backflush: when activated vacuum neutralized to bottle pressure
- Proportional Backflush: pedal controlled pressure range 0 - 50 mmHg



## Phaco

- One handpiece for Phaco emulsification and fragmentation
- 6 different Phaco modes: Continuous, Pulse, Soft Sonic, Cool, Burst, Multi Burst
- Operating frequency 40 kHz
- Stroke length of tip @ 100%: 80 µm for 3002.M handpiece and 100 µm for 3002.P handpiece
- Continuous auto-tuning
- Detection system for loose phaco needle



## Vitrectomy

- High speed vitrectomy: 20-16.000 cpm\*
- Single cut function
- Standard and TDC
- 20 to 27 Gauge vitrectomes
- Wet and dry vitrectomy

*\* The TDC cutter has a cut speed of up to 8.000 cpm and is designed to facilitate cutting tissue on the return of each stroke of the vitrectome, effectively doubling the cut speed.*



## LED Endoillumination

- 3 independent LED outputs
- Intraocular illumination using 20 to 27G probes
- Color and brightness adjustment, white to yellow in 20 gradients
- Radiation blocking filters for UV ( $\leq 425$  nm) and IR ( $\geq 680$  nm)
- Intensity level at 100% setpoint\*: 40 lm

*\*20 G fibre*

## Fluid-Air exchange

- Pressure range: 0 - 150 mmHg
- Programmable Alternate Pressure Function



## Viscous Fluid Control

- One instrument for injection and extraction
- Injection (VFI): 0.5 - 6 bar (5 - 85 psi)\*\*
- Extraction (VFE): 0 to -660 mmHg\*
- Micro-Injection (MI): 0.1-2 bar (1-30 psi)

\*@sea level

\*\*Minimum system pressure of 6 bar required

## Optional Integrated Laser

- Working Beam green laser: 532 nm
- 3 modes: Continuous, Pulse and Single shot
- Laser Power: 50-1200 mW
- Pulse Duration: 50-5000 ms
- Pulse Interval: 50-5000 ms
- LIO illumination 6 V / 12 W: 0-100%
- Aiming beam: 635 nm

## Diathermy Module

- Bipolar Coagulation endo and exo diathermy
- 2 modes: Linear or Fixed
- 20 to 27 Gauge instruments
- Frequency: 1 MHz +/- 10%
- HF Output: 0 - 10 W +/- 20% @ 100  $\Omega$



**eva**  
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Phaco-Vitrectomy System



## General Specifications

- Main power supply: 100 - 240VAC (~50/60 Hz)
- Power consumption: 650 VA
- Air pressure range: 4 - 10 bar (58 - 145 psi)
- Size: 70x185x60 cm (28x73x24 inch)
- Weight full version: 128 kg (282 pounds)



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