

# Advancing Access to Micro-Incisional Combined Surgery



# Agile Fluidics™

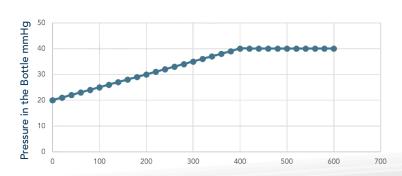
## **Active Irrigation System and Dynamic IOP Control**

The advanced microprocessor-controlled Active Irrigation System linearly increases/decreases pressure in the irrigating solution container (up to a maximum of 20mmHg) to compensate for intraocular fluctuations caused by vacuum (up to a limit of 400mmHg). Active Irrigation System and Dynamic IOP Control act synergistically to ensure eye stability.

#### **PROGRAMMED IOP**



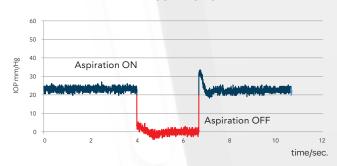
#### DYNAMIC IOP COMPENSATION



Vacuum generated by aspiration mmHg

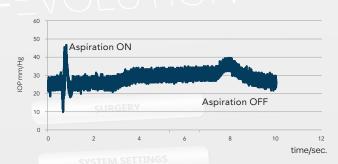
#### **IOP MANAGEMENT**

IOP 20 mmHg – VACUUM 600 mmHg CONTROL OFF



The chart shows IOP fluctuations under active aspiration without an IOP control system\*

IOP 20 mmHg – VACUUM 600 mmHg CONTROL ON



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

The R-Evolution® also features an integrated programmable IV pole supporting Gravity Fluidics.

#### INTERCHANGEABLE FLOW AND VACUUM PUMPS

FLOW RANGE 1-90 cc/min VACUUM RANGE 5 - 700 mmHg VACUUM RANGE 5 - 700 mmHg SELECTABLE VACUUM RISE TIME slow or fast

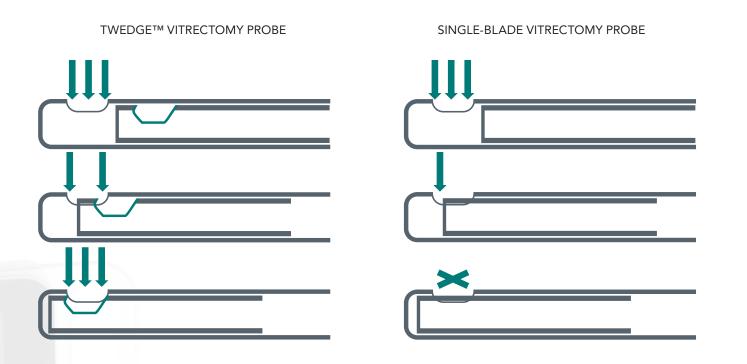
Selectable aspiration system between flow (Peristaltic) or vacuum based (Venturi) pump



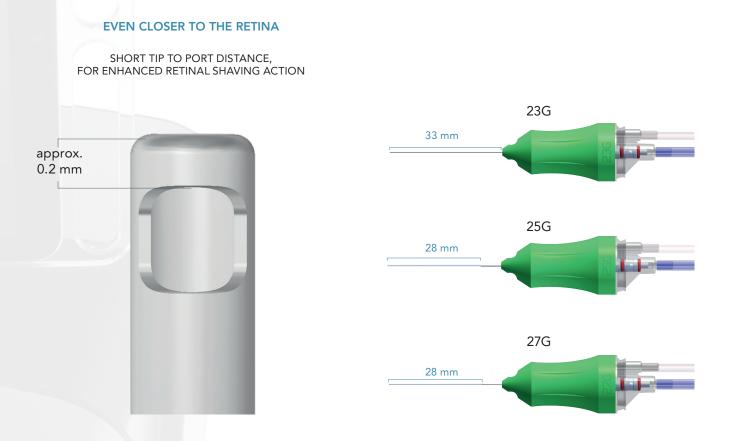


# **Integrated Solutions for Vitreoretinal Surgery**

# Twedge™ 20,000 Cuts/min Dual Blade Vitrectomy Probe



## The First Dual Blade Vitrectomy Probe Ever Marketed



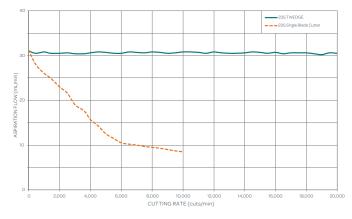
# **Integrated Solutions for Vitreoretinal Surgery**

## Optimised Vitrectomy Fluidics with the Twedge™ Vitrectomy Probe

#### **CONSTANT FLOW AT ANY CUTTING RATE**

The chart shows the different aspiration flow\* achieved using the Twedge™ vitrectomy probe (solid line) compared to a single blade vitrectomy probe (dashed line), as the cutting rate changes.

In particular, the solid line shows how the flow remains constant up to 20,000 cuts/min with the Twedge™ vitrectomy probe; in comparison, the flow decreases as cutting rate increases using the single blade vitrectomy probe.



<sup>\*</sup> balanced salt solution, Vacuum 650 mmHg, Venturi pump, R-Evolution® CR

#### **ENHANCED STABILITY EVEN CLOSE TO THE RETINA**

The chart shows the accelerations\* induced by the Twedge™ vitrectomy probe (solid line) and a single blade vitrectomy probe (dashed line), as a function of time. At every blade work cycle the reduction of stress value using the Twedge™ generates a pulse-free action and the utmost safety close to the retina.

The Twedge™ vitrectomy probe leads to significant reduction of the stress value, generating a virtually pulse-free action close to the retina.



<sup>\*</sup> porcine vitreous, 3,000 cuts/min, 300 mmHg vacuum, Venturi pump, R-Evolution® CR

<sup>&</sup>quot;Introducing new Vitrectomy Probe blade shapes: a fluid dynamics study" Rossi T., Querzoli G., Angelini G., Malvasi C., Iossa M., Placentino L., Ripandelli G.; Retina. 2014 Sep; 1896-904.

<sup>&</sup>quot;A new Vitrectomy Probe blade engineered for constant flow vitrectomy" Rossi T., Querzoli G., Malvasi C., Iossa M., Angelini G., Ripandelli G.; Retina. 2014 Jul; 34(7): 1487-91.

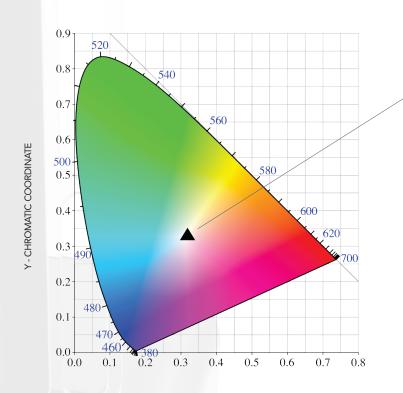
## **LED Lighting System**

The R-Evolution® CR is equipped with three independent, highly efficient LED light sources, free of harmful UV and IR emissions. In order to improve contrast and ocular tissue visualisation during VR surgery, two LED sources have 4 different selectable filters: three yellow (435nm, 475nm, 515nm), and one green.

The LED lighting system allows surgeons to optimise tissue visualisation thanks to constant brightness and longer life time versus Xenon, furthermore guaranteeing the ideal protection against phototoxicity.



#### **CHROMATICITY DIAGRAM**



The diagram shows the ideal positioning of the R-Evolution® CR LED sources in the safest white light frequency (sunlight).

# Integrated Green Laser Module: Diode Pumped and Doubled Frequency

Laser Nd: YVO (532nm)

#### GREEN LASER MODULE WITH MAIN SCREEN INTEGRATED INTERFACE

• LASER class: IV green

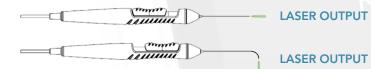
• Cooling System: Thermo-Electric

Laser Type: YaG solid state frequency duplicate
Laser Power: Adjustable from 50mw to 2000mW
Pulse duration: adjustable from 10ms to 2 sec.

• Interval: adjustable from 0 to 1 sec.



#### LASER PEDAL







SURGERY

SYSTEM SETTINGS

SERVICE

# **Integrated Solutions for Vitreoretinal Surgery**

# Automatic Fluid-Air eXchange

#### AIR-FLUID EXCHANGE ACTIONABLE THROUGH FOOT PEDAL

Fluid-Air and Air-Fluid eXchange is enabled by the machine-driven automatic switch and is actionable through the wireless foot pedal, enabling operation without the 3-way stopcock.

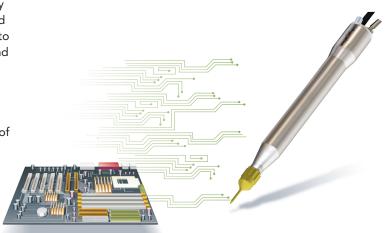


# **Optimized Energy Management**

## Minimal Stress™ Technology

The patented Minimal Stress™ technology is the only system on the market that uses a feedback-controlled energy delivery to the piezoelectric crystals in order to mantain the exact tip stroke set point even under load conditions.

Minimal Stress™ technology optimises U/S energy delivery, always ensuring consistency between programmed and actual phaco tip stroke regardless of nucleus hardness.



# BVI® MINIMAL STRESS™ U/S DELIVERY TRADITIONAL U/S DELIVERY **TECHNOLOGY TECHNOLOGY TIP ELONGATION** TIP ELONGATION PROGRAMMED ≠ ACTUAL PROGRAMMED = ACTUAL Cataract Material Programmed Tip Elongation **Actual Tip Elongation** 100 100 stroke (microns) stroke (microns) 80 80 60 60 40 40 20 20

NO consistency between the programmed phaco tip stroke and the actual tip elongation, when the phaco tip faces the resistance presented by hard lens material.\*

time (sec x 100)

Maintained consistency between the programmed phaco tip stroke and the actual tip elongation, when the phaco tip faces the resistance presented by hard lens material.\*

time (sec x 100)

0

0

Reference: \* Data on file, BVI.

## Intuitive User Interface

## Irrigating Solution Continuity Guard

The Irrigating Solution Continuity Guard (ISCG) informs the OR staff about the remaining irrigation level into the fluid container, designed to increase surgeons' and nurses' confidence.



# NEW INFORMATIVE ICON WITH REMAINING IRRIGATING SOLUTION LEVEL



### Foot Pedal and Graphic User Interface (GUI)

Wireless single linear or dual linear foot pedal with programmable functions.

- Easy-to-use touchscreen set-up and customised function assignment
- Dedicated programmability for both anterior and posterior segment surgeries
- Utmost flexibility with dual linear control
- 19" Display
- 3 sizes footplates with footrest or heel support design



#### SINGLE LINEAR



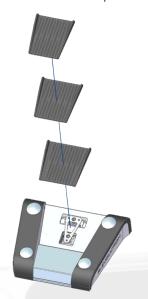


# Intuitive User Interface

## Improve Ergonomics and Control Both in Vitreoretinal and Cataract Surgery

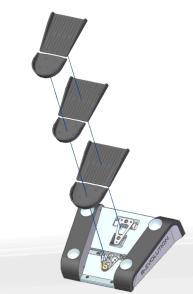
#### 3 SIZES FOOTPLATE WITH FOOTREST DESIGN

Enhance comfort in VR procedures



#### 3 SIZES FOOTPLATE WITH HEEL SUPPORT DESIGN

Controlled foot lateral movements in cataract surgery



# **User Friendly Software Interface with Audio Feedback**

#### HIGH-SENSITIVITY 19" TOUCH SCREEN



VITRECTOMY USER INTERFACE



CATARACT USER INTERFACE

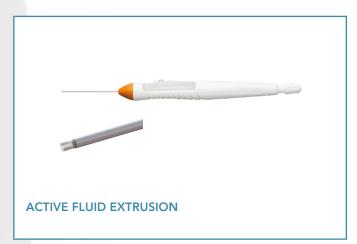


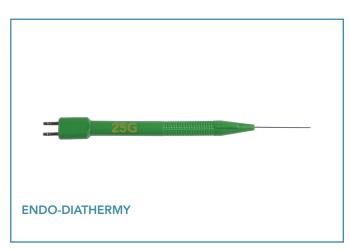


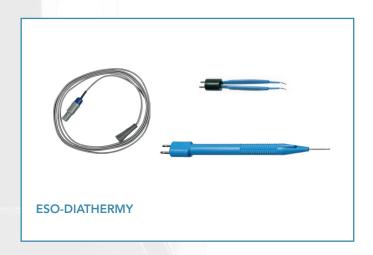
# **Auxiliary Functions for Vitreoretinal Surgery**

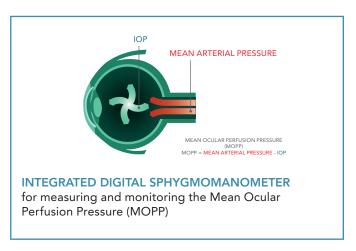












# **Technical Specifications**

Integrated IV Pole AGILE Fluidics™ Gravity Fluidics Gravity Fluidics Reflux Automatic Venting One Disposable Cassette for all Procedures Fax / AFX Peristatic Pump One Disposable Cassette for all Procedures Fax / AFX Peristatic Pump One Disposable Cassette for all Procedures Fax / AFX Peristatic Pump One Disposable Cassette Fax / AFX Peristatic Pump One Display or Foot Pedal Switch Opalics One Display Opalics Opalics One Display Opalics Opalics One Display O	FLUIDICS	R-EVOLUTION® R-EVOLUTION® CR		R-EVOLUTION® R-EVOLUT	TION® CF
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U/S Emission Modes: Continuous, Burst, Pulsed with Selectable Duty Cycle Protocols DDC (Dynamic Duty Cycle) in Occlusion Status Autolimit (U/S Power Limit in Occlusion Status) DSR (Dynamic Setting Regulation) Straight, Flared, Flared Bent Tips (20G, 21G and 22G) Linear / Fix Control ANTERIOR VITRECTOMY ANTERIOR VITRECTOMY Twedge® Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 2,000 cuts/min Cutting Rate up		•			
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Protocols  DDC (Dynamic Duty Cycle) in Occlusion Status  Autolimit (U/S Power Limit in Occlusion Status)  DSR (Dynamic Setting Regulation)  Straight, Flared, Flared Bent Tips (20G, 21G and 22G)  Linear / Fix Control  ANTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 2,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Programmable up to 20 Frogrammable up to 20 F		•	<u>-</u>	-	
Occlusion Status Autolimit (U/S Power Limit in Occlusion Status)  DSR (Dynamic Setting Regulation) Straight, Flared, Flared Bent Tips (20G, 21G and 22G) Linear / Fix Control  ANTERIOR VITRECTOMY  Twedge <sup>TM</sup> Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min Linear / Fix Control  Programmable Dual/Single Linear / Fix Control  Wireless - Bluetooth SERVICE  Programmable up to 20,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  Programmable up to 20,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Programmable up to 20 Functions  Rechargeable  Rechargeable			Eso Diathermy Instruments		
Autolimit (U/S Power Limit in Occlusion Status) DSR (Dynamic Setting Regulation) Straight, Flared, Flared Bent Tips (20G, 21G and 22G) Linear / Fix Control  ANTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 20,000 cuts/min Linear / Fix Control POSTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 20,000 cuts/min Linear / Fix Control POSTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 20,000 cuts/min Linear / Fix Control POSTERIOR VITRECTOMY Recharge M Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 20,000 cuts/min Linear / Fix Control Posterior Vitre		•			
DSR (Dynamic Setting Regulation) Straight, Flared, Flared Bent Tips (20G, 21G and 22G) Linear / Fix Control  ANTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 8,000 cuts/min Cuting Rate up to 20,000 cuts/min Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  Cuting Rate up to 20,000 cuts/min Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min Linear / Fix Control  Posterior Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation) Endo Phaco Linear / Fix Control  LILUMINATION		•		-	
(Dynamic Setting Regulation) Straight, Flared, Flared Bent Tips (20G, 21G and 22G) Linear / Fix Control  ANTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G Cutting Rate up to 8,000 cuts/min Linear / Fix Control  POSTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min Linear / Fix Control  POSTERIOR VITRECTOMY Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min Linear / Fix Control  Posterior  Posterior  Cutting Rate up to 20 Functions  Rechargeable  Linear Control  Programmable up to 20 Functions  Rechargeable  Linear / Fix Control  DSR (Dynamic Setting Regulation) Endo Phaco Linear / Fix Control	,		ENDO LASER	•	
Straight, Flared, Flared Bent Tips (20G, 21G and 22G)  Linear / Fix Control  ANTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  Programmable up to 20 Functions  Rechargeable  ILIUMINATION  Laser Module 532 nm with Dedicated Footswitch  Easer Module 532 nm with Dedicated Footswitch  Laser Module 532 nm with Dedicated Footswitch  Easer Module 522 ne  Power up to 2,000 nW  Adjustable Pulse Interval  BVI Laser Portfolio 23G, 25G, 27G  FOOTPEDAL SYSTEM SETTINGS  Programmable Dual/Single Linear Control  Wireless - Bluetooth  Wireless - Bluetooth  Endo Post - Programmable up to 20 Functions  Rechargeable		•	Optional Integrated Green		
Linear / Fix Control  ANTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco  Linear / Fix Control  ILLUMINATION	Straight, Flared, Flared Bent	•		-	
Twedge <sup>TM</sup> Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge <sup>TM</sup> Dual Blade Cutter 23G, 25G, 27G  Programmable Dual/Single Linear Control  Wireless - Bluetooth SERVICE  Programmable up to 20 Functions  Rechargeable  Rechargeable	·	•	Laser Power up to 2,000 mW	-	
Twedge <sup>TM</sup> Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge <sup>TM</sup> Dual Blade Cutter 23G, 25G, 27G  Programmable Dual/Single Linear Control  Wireless - Bluetooth Service  Programmable up to 20 Functions  Rechargeable  Rechargeable  ILIUMINATION	ANTERIOR VITRECTOMY		•	-	
Cutting Rate up to 8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  Frogrammable up to 20 Functions  Rechargeable  Rechargeable  ILIUMINATION		•	25G, 27G	-	
8,000 cuts/min  Cutting Rate up to 20,000 cuts/min  Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco  Linear / Fix Control  Linear / Fix Control  TLLUMINATION  Programmable Dual/Single Linear Control  Wireless - Bluetooth SERVICE  Programmable up to 20 Functions Rechargeable			FOOTPEDAL SYSTEM SETTIN	98	
20,000 cuts/min Linear / Fix Control  POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco Linear / Fix Control  Linear / Fix Control  Linear / Fix Control  LILLUMINATION  Wireless - Bluetooth SERVICE  Programmable up to 20 Functions Rechargeable	8,000 cuts/min		Programmable Dual/Single Linear Control	•	
POSTERIOR VITRECTOMY  Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco  Linear / Fix Control  ILLUMINATION  20 Functions Rechargeable  **Rechargeable*  **Rechargeable*  **ILUMINATION		•	Wireless - Bluetooth	•	
Twedge™ Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco  Linear / Fix Control  ILLUMINATION  Rechargeable  Rechargeable	Linear / Fix Control	•	Programmable up to		
Twedge in Dual Blade Cutter 23G, 25G, 27G  Cutting Rate up to 20,000 cuts/min  DSR (Dynamic Setting Regulation)  Endo Phaco  Linear / Fix Control  ILLUMINATION	POSTERIOR VITRECTOMY				
20,000 cuts/min DSR (Dynamic Setting Regulation) Endo Phaco Linear / Fix Control ILLUMINATION		-	Rechargeable	•	
(Dynamic Setting Regulation) Endo Phaco Linear / Fix Control LLUMINATION	Cutting Rate up to	-			
Endo Phaco Linear / Fix Control LLUMINATION  - • • • • • • • • • • • • • • • • • •		-			
ILLUMINATION		-			
ILLUMINATION					
	3 Independent LED Sources	-			

