

ELECTROSURGERY

VIO® 200 S

THE ELECTROSURGICAL UNIT FOR OUT-PATIENT SPECIALTIES –  
WITH AUTOMATIC OUTPUT DOSAGE.



VIO  
200 S

**ERBE**

Perfection for Life

# AUTOMATIC OUTPUT DOSAGE IN THE VIO® 200 S. FOR REPRODUCIBLE TISSUE EFFECTS.

ERBE has set an innovative standard with its new VIO electrosurgical system which provides optimal support for operative procedures in virtually all medical fields. And many more indications can be included.

The newly developed **ERBE VIO 200 S** electrosurgical unit offers automatic **output dosage for all regulative technologies:**

- **voltage regulation** for sparing, reproducible cutting and coagulation
- **arcing regulation** in endoscopic interventions
- **output regulation** to maintain constant power levels during coagulation and devitalization



We configure the VIO 200 S – both the hardware and the software – individually

**according to your needs:** according to the medical specialty, the indication and the specific requirements. This means that operative interventions can be carried out even more efficiently, precisely and sparingly for the patient. You can choose between **different socket modules and software upgrades** – many options are available. In spite of its wide range of output and functions, operating the **VIO 200 S** is both simple and user-friendly.

We recommend the VIO 200 S for use by medical practitioners in private practice and outpatient clinics for the following areas:

- gastroenterology (polypectomies, papillotomies)
- ENT
- dermatology
- surgical outpatient clinics



**Tailored to your needs –  
both hardware and software**

- Automatic output dosage
- Can be individually configured to meet the requirements of different medical specialties, indications and procedures
- Simple, interactive and safe operation
- VIO 200 S – the master control unit for other modules of the VIO electro-surgical system, for example Argon Plasma Coagulation, smoke plume evacuation, endoscopy irrigation pump and more

**Variable configuration with socket modules**

You decide which sockets you need:

ERBE standard sockets or international 3-PIN sockets, 4 mm sockets for endoscopic interventions, bipolar or monopolar sockets ... many choices are available.



**Precise power output adjusted to the individual indication**

The user-friendly VIO 200 S generator module functions as the central control unit, providing the right amount of power at the right time. Modern regulative technologies provide optimal power dosages for new and improved electro-surgical functions.



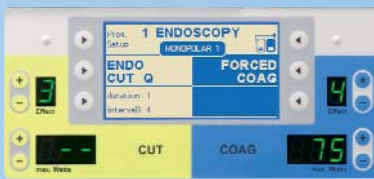
**VIO CART (optional): the ergonomic systems cart for the VIO 200 S and other system components**

# PRECISE CUTTING. IN VERY CONCEIVABLE MODE.

## CUT

You do the cutting – the **VIO 200 S** will automatically adjust the power output. Intelligent microprocessor technology will deliver the required amount of power according to your current needs.

The advantages of **automatic power dosage**: efficient operation with optimal results and a high degree of safety; the ERBE Power Peak System takes account of specific features during the initial cutting stage and provides automatic support; improved cutting effects and reduced thermal damage to tissue; less stress for the patient.

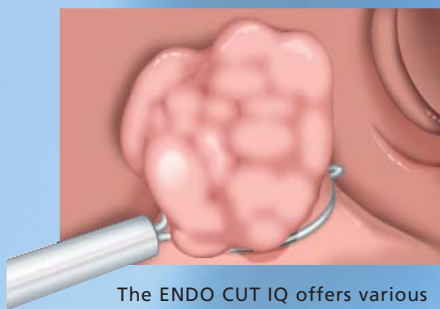


## Regulation of voltage and arcing in a single system – for a superior cut

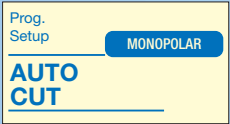
Depending on your choice of mode you will be able to utilize two different regulatory techniques provided by the VIO 200 S generator. **ERBE voltage regulation** constantly regulates the pre-selected voltages during the entire cutting process and automatically controls the power output – creating reproducible cutting results which are largely independent of the cutting speed, type of electrode and tissue type.

**ERBE arcing regulation** controls the intensity of the arcs required for the cut between the active electrode and the target tissue and constantly adjusts them. This means that the power output is controlled and optimized.



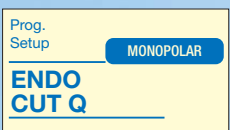


The ENDO CUT IQ offers various coagulation effect settings for different types of polyps.



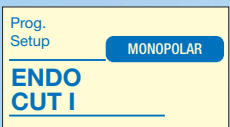
**AUTO CUT**

Automatically regulates the cutting quality, adjusting it to requirements through regulation of the voltage. VIO adapts itself to the working mode of the operating physician. Minimal necrosis and reproducible cutting quality – largely independent of the electrode, cutting process and target tissue.



**ENDO CUT IQ (UPGRADE)**

The fractionated cut with cutting and coagulation intervals. For snare (Q) or needle/wire applications (I) in endoscopic procedures.



The variability of the VIO 200 S means that you can upgrade the system with the ENDO CUT IQ program.

**For the optimal cut**

- Dosage of power output with ERBE voltage regulation: reproducible cuts
- Dosage of power output with ERBE arcing regulation: reproducible, efficient cuts during endoscopic procedures
- Cutting results are largely independent of the cutting speed, the shape of the electrode and the tissue type
- Reproducible adjustment of effects
- Power Peak System for optimal support during the initial cutting stage

# ALL REGULATED AUTOMATICALLY. FOR EXACT COAGULATION AND DEVITALIZATION.



## COAG

The concept of the VIO electrosurgical generator is so variable that it offers the most important monopolar and bipolar electrosurgical coagulation types for all requirements – and much more besides.

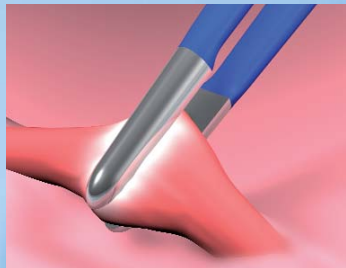


### Voltage and power regulation in a single system – for even better coagulation

**ERBE voltage regulation** constantly maintains a pre-set voltage during the entire coagulation process. This ensures that the precise amount of power required is delivered. Even under widely differing conditions it is possible to

create reproducible and optimal coagulation effects at all times.

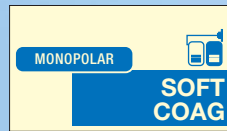
With a precisely limited or minimal power output – adapted to the individual requirement. If the procedure requires contact coagulation with minimal carbonization, quick coagulation and as little sticking to the electrode as possible, then ERBE Soft Coagulation is the method of choice. The **ERBE power regulation** will maintain a constant pre-set power output level over a longer period, thereby creating an effective, previously unknown soft coagulation.



Coagulation of blood vessels.

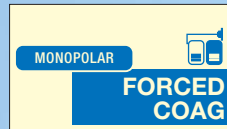


Argon Plasma Coagulation with APC 2200 C probe (circular probe).



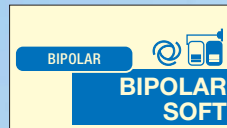
### SOFT COAG

The new, rapid soft coagulation with regulated power output. Coagulation without carbonization and almost no sticking of the electrode. Provides in-depth coagulation with minimal tissue damage.



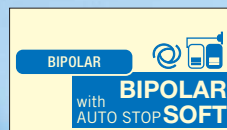
### FORCED COAG

Allows the physician/surgeon to operate rapidly and effectively and meets all the requirements of a standard coagulation. Can be applied either directly using the coagulation electrode or indirectly, for example, with the help of insulated surgical forceps.



### BIPOLAR SOFT COAG

Bipolar coagulation with a choice of AUTO START/AUTO STOP. Low voltages prevent the instrument from sticking and distinctly reduce tissue carbonization. Effective – with a subtle adjustment of 8 different effects.



AUTO START: automatic COAG activation when the electrode touches the tissue. The programmable delay before starting activation ensures that there is sufficient time for dissection.

AUTO STOP automatically stops activation after optimal coagulation has been achieved. This prevents carbonization, sticking to tissue and contamination of the electrode.

### For perfect coagulation

- Dosage of power output through voltage regulation: coagulation with optimal power output
- Power regulation for rapid, non-stick coagulation without carbonization
- AUTO START and AUTO STOP functions
- Reproducible adjustment of tissue effects

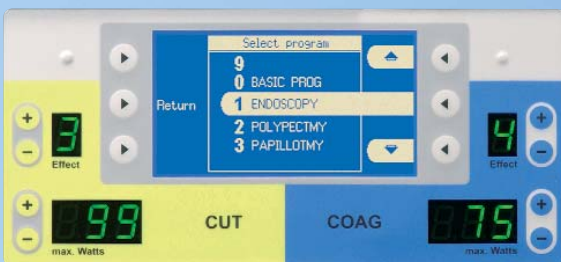
# INNOVATIVE USER INTERFACE AND SAFETY CONCEPT. VERSATILE AND COMFORTABLE.

The **FocusView** function of the new ERBE VIO 200 S is an innovative user interface: the monitor automatically only displays those settings and figures which you actually need or are activating during the respective procedure.

## Innovative development:

### the Neutral Electrode Safety System **NESSY**

With the **NESSY** safety concept and the new ERBE patient plate **NESSY  $\Omega$**  the VIO 200 S sets new safety standards in monopolar surgery.

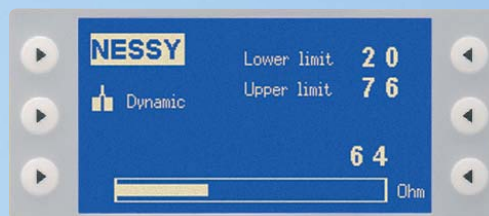


## Simple user interface

The user interface concept of the VIO 200 S allows the operating physician and his team to access the program parameters quickly and directly. The power output and the effects can be changed easily and directly using the up and down keys.



**Pre-selected effect settings** for consistent operative results and reproducible tissue effects.



**NESSY** monitors the application of the patient plate and supports the user.



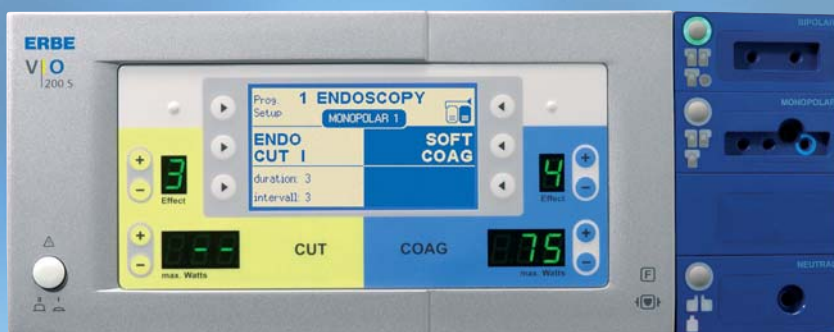
The new shape of the **NESSY  $\Omega$  electrode** means that the electrode can be applied irrespective of direction.

It practically precludes the dreaded "leading edge" effect, i.e. the development of high current densities at the electrode edges.

# WELL DESIGNED OPERATION AND ACTIVATION CONCEPT – JUST WHAT YOU ALWAYS WANTED.

## Advantages at a glance

- Simple to operate due to **FocusView**
- Display-supported neutral electrode safety system **NESSY** provides interactive assistance when positioning the patient plate
- Dynamic **NESSY**
- Assignment of the footswitch: the display makes it possible to assign the footswitch or even just one footswitch pedal to the output socket of choice
- **VIO** supports the automatic activation functions **AUTO START** and **AUTO STOP** in **BIPOLAR SOFT**
- Up to 10 programs can be stored
- 2 footswitches can be connected to the unit
- Modular concept with **APC 2**, **VEM 2**, **EIP 2**, **IES 2**
- Operation possible in several languages
- **VIO 200 S** can be updated (updates possible)
- Optional choice of a 3rd additional electrosurgical socket



**FocusView** limits the amount of information displayed to the essentials, showing only the parameter settings of the instruments either currently plugged into the unit or activated.

# INDIVIDUAL CONFIGURATION ACCORDING TO YOUR REQUIREMENTS.

The ERBE VIO 200 S – open to future developments with modular hardware and software. We configure the system according to your requirements – which can range from the basic “stand-alone” electrosurgical generator to the full electrosurgical system. This matrix provides you with an overview of the range of possible options for configuration. Our experts are on hand to offer professional advice. We would like to help you make the right choice.

**VIO 200 S**  
No. 10140-400



**No. 20180-000**  
or Universal Cart  
No. 20185-205

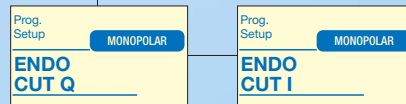


**VEM 2**  
No. 10141-000



**APC 2**  
No. 10134-000

**Upgrade**



ENDO CUT IQ  
**No. 29140-203**

**System software: language**



German + English + French + Spanish

**No. 20193-082**

## TECHNICAL DATA AT A GLANCE.



### Power output

Maximum Cut output	200 Watt for 500 Ohm
Maximum Coag output	up to 120 Watt
Safety system	NESSY
Frequenz	350 kHz

### Mains connection

Supply voltage	100 V – 120 V / 220 V – 240 V $\pm$ 10 %
Frequency	50/60 Hz
Mains current	max. 8 A / 4 A
Power input during stand-by	40 Watt
Power input during max. electrosurgical output	500 Watt / 920 VA
Potential equalization connection	yes
Fuse	T 8 A / T 4 A

### Dimensions and weight

Width x Height x Depth	410 x 160 x 370 mm
Weight	8,8 kg

### Ambient temperature for the transport and storage of the unit

Temperature	-40 °C bis + 70 °C
Relative humidity	10 % – 95 %

### Ambient temperature during operation of the unit

Temperature	+10 °C bis + 40 °C
Relative humidity	15 % – 80 %

### Standards

Classification acc. to the EC-Directive 93/42/EE	II b
Protective class acc. to EN 60 601-1	I
Type acc. to EN 60 601-1	CF

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