How Our Patented Radiowave Technology Works

**Cellular Radiowave Absorption**

1. High Vascularization Radiowave energy has a strong affinity for water.
2. Targeted tissue and vessels absorb energy due to high water content.
3. Intracellular pressure increases as water molecules expand.
4. Cellular interaction enables meticulous precise dissection with tissue preservation.
5. Localized ultrasonic wave energy effect with minimal site retraction.

**Targeted Tissue / Cell** readily absorbs energy due to high water content.

**Volatilization** results in cell conversion to vapor. Process emits steam which aids in coagulation.

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**Hundreds of electrodes & accessories are available for most medical specialties**

(See Product Catalog for full listing)

- **Empire® microIncision™ Needle Electrode (TEE327, 3/4” Length, Straight)**
- **Van-Ty™ Wire Electrode Adjustable Cutting Wire (A8D)**
- **Vari-Tip™ Wire Electrode Adjuster (DCP 100)**
- **Permav® Needle Electrode (PEMC)**
- **Bellav™ Needle Electrode (BHZ15)**
- **Pellevé™ Handpiece, 10mm (D110FSHP)**
- **Mini Mono Stan RF™ Forceps (IEC-MJ11/M, 4.9” Length)**
- **ACe-Tip™ Non-Stick Forceps (ACBF-010, 3.5” Length)**
- **RAUP Electrode (H81A1)**
- **LLETZ Bayonet Electrode (W31D)**
- **Vari-Tip™ Wire Electrode Adjustable Cutting Wire (A8D)**
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- **ACe-Tip™ Non-Stick Forceps (ACBF-010, 3.5” Length)**
Surgiton® Dual RF™ S5
4.0 MHz Radiowave Technology

With 50 years of experience, over 70 patents and more than 200 journal articles, Ellman is a company you can trust to deliver the products and services you need to meet your surgical needs.

Our newest innovation, the patented Surgitron® Dual RF™ S5 energy source, utilizes advanced radiowave technology to provide unparalleled surgical PRECISION for cutting and coagulating soft tissues. The high frequency of 4.0 MHz minimizes thermal tissue damage along the incision path.

The system’s VERSATILITY enables use in a variety of surgical and aesthetic procedures, more than other energy-based systems.5 Procedures include the new Pellevé™ Skin Tightening System, a new option for the non-ablative treatment of mild to moderate facial wrinkles.

To learn more, call us at 1-800-835-5355 or visit www.ellman.com • www.pelleve.com

Details of the New Surgitron® Dual RF™ S5

- Patented Technology reflects 50 years of innovation and enhancement
- Dual Frequency combines two distinct frequencies – Monopolar (4.0 MHz) and Bipolar (1.7 MHz) – for outstanding precision and control
- Robust Design incorporates an internal heat management system enabling use in lengthy surgical or aesthetic procedures requiring high power output for extended periods of time
- Digital Control Panel facilitates easy operation and a clear view of settings
- Solid State Circuitry for dependable and consistent energy emission
- Parameter Recall enables rapid set-up for subsequent procedures
- Safety Indicators provide visual and auditory alerts

Distinct Benefits for Your Practice

- Precision – sculpt precise incisions in very thin, mobile or tension-free tissues
- Versatility – expand your offerings to include new revenue-generating aesthetic procedures, such as treating mild to moderate facial wrinkles with the new Pellevé Wrinkles Treatment Handpieces
- Value – a high return on investment (ROI) purchase for both hospital and office environments

Clinical Benefits for Your Patients

- 73% Less Thermal Spread – as compared to Bovie® 1250 and Valleylab® ForceFX™ in porcine tissue
- Less Burning or Charring of Tissues – minimizes burning of tissue, unlike laser or conventional electrosurgery
- Less Post-Operative Pain – causes less tissue trauma5
- Excellent Cosmetic Results – causes minimal scar tissue formation6,7
- Quick Recovery – with less tissue damage, healing is hastened and your patients will recover quickly8

Clinical Citations

The **PRECISION** you require with the **VERSATILITY** you need

**How Our Patented Radiowave Technology Works**

**Cellular Radiowave Absorption**

1. High frequency Radiowave energy has a strong affinity for water.
2. Targeted tissue and nearby adjacent tissue absorb energy due to high water content.
3. Intracellular pressure increases as water molecules expand within cell membranes.
4. Cellular interaction enables meticulous precise dissection with tissue preservation.
5. Targeted tissue easily absorbs energy due to high water content.
6. Intracellular pressure increases as water molecules expand within cell membranes.

**Bipolar Bayonet Turbinate (IEC-I6D)**

**Pellevé™ Handpiece, 10mm (D110FSHP)**

**Mini Mono Stan RF™ Forceps (IEC-MJ11/M, 4.9” Length)**

**ACe-Tip™ Non-Stick Forceps (ACBF-010, 3.5” Length)**

**Empire®microIncision™ Needle Electrode (TEE327, 3/4” Length, Straight)**

**Vari-Tip™ Wire Electrode Adjustable Cutting Wire (W11)**

**LLETZ Bayonet Electrode (W31D)**

**RAUP Electrode (H81A1)**

**PenMax™ Needlebase, Teflon (S121F)**

**Minispec Blue Blade RF™ Forceps (SC011/14M, 4” Length)**

**Ace-Tip™ Fine-Bladed Forceps (SCF-010, 3” Long)**

**Hundreds of electrodes & accessories are available for most medical specialties**

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Surgitron® Dual RF™ S5
4.0 MHz Radiowave Technology

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Our newest innovation, the patented Surgitron® Dual RF™ S5 energy source, utilizes advanced radiowave technology to provide unparalleled surgical PRECISION for cutting and coagulating soft tissues. The high frequency of 4.0 MHz minimizes thermal tissue damage along the incision path.

The system’s VERSATILITY enables use in a variety of surgical and aesthetic procedures, more than other energy-based systems. Procedures include the new Pellevé® Skin Tightening System, a new option for the non-ablative treatment of mild to moderate facial wrinkles.

Five Distinct Waveforms for Optimal Clinical Outcomes

- **FULLY FILTERED (Cut)**
  - Manual incision and dissection
  - Minimal cellular distortion
  - Ideal for incision and dissection
  - Minimized lateral thermal damage

- **FULLY RECTIFIED (Cut/Coag)**
  - Cutting and hemostasis
  - Ideal for subcutaneous tissue dissection and planing
  - Transiently useful in vascular areas while producing minimal amounts of lateral heat and tissue damage

- **PARTIALLY RECTIFIED (Hemorrhoidal)**
  - Coagulation with edge effect
  - Ideal for hemorrhoidal treatment
  - Minimal cellular distortion

- **FULGURATION**
  - Maximum penetration and hemostasis
  - Ideal for intentional tissue destruction

- **BIPOLAR**
  - Minimal cellular distortion
  - Ideal for coagulation in and around critical anatomy

Maximum Precision Cutting and Control

- **4.0 MHz minimizes Lateral Thermal Spread and maximizes Precision**

Features of the new Surgitron® Dual RF™ S5

- **Pellevé™ Compatible** enables non-ablative treatment of wrinkles
- **Patented Technology** reflects 50 years of innovation and enhancement
- **Dual Frequency** combines two distinct frequencies – Monopolar (4.0 MHz) and Bipolar (1.7 MHz) – for outstanding precision and control
- **Robust Design** incorporates an internal heat management system enabling use in lengthy surgical or aesthetic procedures requiring high power output for extended periods of time
- **Digital Control Panel** facilitates easy operation and a clear view of settings
- **Solid State Circuity** for dependable and consistent energy emission
- **Parameter Recall** enables rapid set-up for subsequent procedures
- **Safety Indicators** provide visual and auditory alerts

Distinct Benefits for Your Practice

- **Precision** – acute precise incisions in very thin, mobile or tension-free tissues
- **Versatility** – expand your offerings to include new revenue-generating aesthetic procedures, such as treating mild to moderate facial wrinkles with the new Pellevé® Wrinkle Treatment Handpiece
- **Value** – a high return on investment (ROI) purchase for both hospital and office environments

Clinical Benefits for Your Patients

- **73% Less Thermal Spread** – as compared to Ellman® 1250 and Valleylab™ ForceFX™ in porcine tissue
- **Less Burning or Charring of Tissues** – minimizes burning of tissue, unlike laser or conventional electrosurgery
- **Decreased Post-Operative Pain** – causes less tissue trauma
- **Excellent Cosmetic Results** – causes minimal scar tissue formation
- **Quick Recovery** – with less tissue damage, healing is hastened and your patients will recover quickly

Clinical Citations

1. Dr. Constantin Stan, Data on file.
Surgiton® Dual RF™ S5
4.0 MHz Radiowave Technology

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Clinical Citations

1. Procedures include the new Pellevé™ Wrinkle Treatment Hanspenna
2. A high return on investment (ROI) purchase for both hospital and office environments

Five Distinct Waveforms for Optimal Clinical Outcomes

- FULLY FILTERED (Cut)
  - Microincision cutting
  - Minimal lateral thermal spread
  - Best cosmetic results
  - Ideal for skin incision and biopsy

- FULLY RECTIFIED (Cut/Coag)
  - Cutting and coagulation
  - Ideal for subcutaneous tissue dissection and planing
  - Especially useful in vascular areas while producing minimal amounts of lateral heat and tissue damage

- PARTIALLY RECTIFIED (Hemo)
  - Hemostasis
  - Ideal for hemostasis with controlled penetration
  - Prevents visible, thermally-caused destruction

- FULGURATION
  - Maximum penetration and hemostasis
  - Ideal for hemostasis with controlled penetration

- BIPOLAR
  - Bipolar coagulation
  - Minimal lateral tissue necrosis
  - Ideal for coagulation in and around critical anatomy

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### How Our Patented Radiowave Technology Works

**Cellular Radiowave Absorption**

1. **Targeted tissue and vaporized energy due to high water content.**
2. **Intracellular pressure increases as water molecules expand.**
3. **Cellular interaction enables meticulous precise dissection with tissue preservation.**
4. **Targeted tissue and vaporized energy due to high water content.**
5. **Intracellular pressure increases as water molecules expand.**

### Hundreds of electrodes & accessories are available for most medical specialties

(See Product Catalog for full listing)

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<td>(M2)</td>
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**ellman International, Inc., 3003 Royal Avenue, Oceanside, N.Y. 11572-3625 U.S.A.**

(800) 835-5355 • (516) 594-3333 • Fax: (516) 569-0054 • www.ellman.com

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**SURGITRON® DUAL RF S5**

Advanced 4.0 MHz Radiowave Technology

**PRECISION • VERSATILITY**