

Electro-Cap  
Products

# ELECTRO-CAPS



E1-L Electro-Cap Large  
58-62 cm - Blue



E1-M Electro-Cap Medium  
54-58 cm - Red

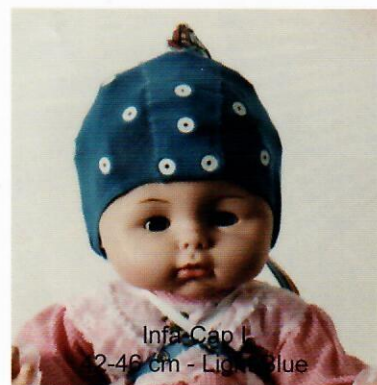


E1-S Electro-Cap Small  
50-54 cm - Yellow

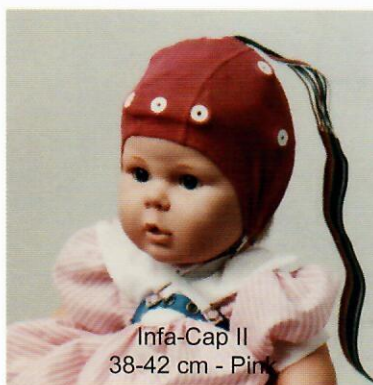


E1-XS Electro-Cap X-Small  
46-50 cm - Green

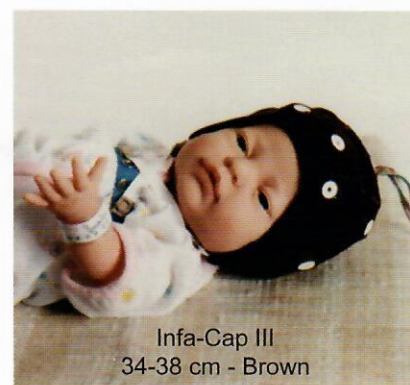
Electro-Caps are an EEG electrode application technique. They are made of an elastic spandex-type fabric with recessed, pure tin electrodes attached to the fabric. The electrodes on the standard caps are positioned to the International 10-20 method of electrode placement. The medium Electro-Cap will fit approximately 65% of all patients over age 5. The small cap will fit primarily children from the ages of 2 to 5 years. The extra small cap will fit most children from 9 - 12 months to 2 years of age. Sizes in age are approximate; the patient should always be measured to determine proper cap size.



Infa-Cap I  
32-46 cm - Light Blue



Infa-Cap II  
38-42 cm - Pink



Infa-Cap III  
34-38 cm - Brown

## INFA-CAPS

Infa-Caps are similar to the regular Electro-Caps. These caps will fit newborn infants to babies about the ages of 9 to 12 months. Infa-Cap I has International 10-20 electrode placements. Standard Infa-Caps II and III have abbreviated electrode placements consisting of F1, F2, C3, C4, O1, O2, T3, T4, Cz and ground. Infa-Cap III can be used for recording premature babies by using E6 Disposable Sponge Disks on all the electrodes.

In-between and custom sizes are available. Please refer to the price sheet, or contact customer service for additional details.

# SUPPLIES

## EP1 EVOKED POTENTIAL ELECTRO-CAP

Evoked Potential Caps are available in all sizes. Standard electrode placements are C3', Cz', C4' 01, Oz, 02 and ground. Other electrode placements are available on special order.

## E2S ELECTRODE BOARD ADAPTER\*

The Electrode Board Adapter converts the EEG instrument from individual electrodes to the Electro-Cap. Each wire is color coded for easy identification. Once the EBA is plugged into the machine, a single plug connects the appropriate cap. Special and custom EBA's are available.

## E3-L BODY HARNESS - 44" - 52"

## E3-M BODY HARNESS - 30" - 44"

## E3-S BODY HARNESS - 21" - 30"

An adjustable elastic band that fastens around the patient's chest with Velcro®. Cap straps attach the cap to the body harness. Proper use of the body harness will hold the cap securely in place reducing the possibility of movement artifact and high impedances.

## E4S QUICK INSERT ELECTRODE\*

A temporary electrode which will override the cap wiring in the event of a faulty electrode during a test. A Quick Insert Electrode may be placed into the mount of the faulty electrode and connected directly to the EEG machine until the cap can be properly repaired.

## E5-9S EAR ELECTRODES\* - Standard 9mm cup.

## E5-6S EAR ELECTRODES\* - Infant 6mm cup.

A pair of pure tin cup electrodes with a 48" (122 cm) lead wire and a female socket. A spring-clip back, covered with plastic for patient comfort, is used to hold the electrode in place.

## E6 DISPOSABLE SPONGE DISKS (package of 100)

Foam circles with adhesive backing used on the forehead or any other hairless areas. They keep the ECI Electro-Gel from spreading between the electrodes and absorb perspiration. It is recommended the disks be placed on FP1 and FP2 to prevent the cap from moving up on the forehead. Sponge disks are effectively used on infants due to the tenderness of the scalp and may assist in fitting the caps properly.

## E7 NEEDLE/SYRINGE KIT

Kit includes 1 5cc syringe and 2 16g Special Blunted Needles.

## E8 SPECIAL BLUNTED NEEDLE / E7S 5cc SYRINGE

## E7B 5cc SYRINGE (package of 125)

## E8B SPECIAL BLUNTED NEEDLES (package of 100)

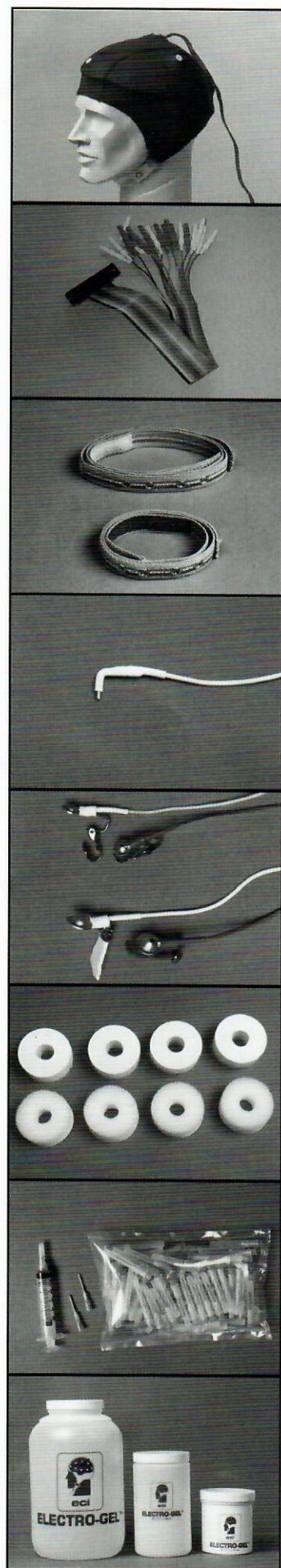
Blunted 16g needles for use with syringe. Used for dispensing of gel into electrodes and scalp preparation. It is recommended that the needles be discarded after each use according to hospital infection control procedures.

## E9 ECI ELECTRO-GEL (16 oz.)

## E10 ECI ELECTRO-GEL (32 oz.)

## E11 ECI ELECTRO-GEL (128 oz.)

ECI Electro-Gel has been specifically formulated for use with Electro-Cap products. Other brands or types of gel will cause high electrode impedance and various types of severe electrode artifacts.



\*All electrodes are available with a 2mm male pin instead of a female socket (outside of the U.S. only). Please drop the Suffix "S" from any item you wish to receive with a male instead of a female connection.

# SUPPLIES

## E12 SPECIAL HEAD MEASURING TAPE

Special color-coded Head Measuring Tape used to determine proper cap size quickly and effectively. Color-coding coincides with cap colors. Proper cap size is vital for assuring accurate electrode placement and prolonging cap life.

## E13 CAP STRAPS - For large, medium, small, or extra-small caps.

Replacement straps with buckles and snaps. Used to hold the caps securely in place by attaching to cap and body harness.

## E14S ECG ELECTRODE\*

A recessed pure tin electrode mounted on an adjustable elastic band. Electrode connection is made with a 72" (183 cm) lead wire and a female socket. It is used for electrocardiographic recordings. May also be used as a reference or ground electrode.

## E15S EMG ELECTRODE\*

Two recessed pure tin electrodes mounted on an adjustable elastic band. Electrode connection is made with a 72" (183 cm) lead wire and a female socket. It is used for muscle recording.

## E16 IVORY® LIQUID DETERGENT (24 oz.)

Recommended for washing Electro-Caps. Other soaps and detergents may leave a residual film on the electrode metal. If the soap film builds up and excessively coats the electrode, high electrode impedances and electrode artifacts may result.

## E17S BIO-POTENTIAL ELECTRODE\*

A recessed pure tin electrode with a 72" (183 cm) lead wire and a female socket. Designed for extra electrode placements under the cap fabric on an occasional basis. May also be used in place of E21 Disk Electrodes where a recessed electrode is preferred by using an E6 Disposable Sponge Disk to hold the Bio-Potential Electrode in place.

## E19 SPARE ELECTRODE DISK

## E20 SPARE ELECTRODE MOUNT

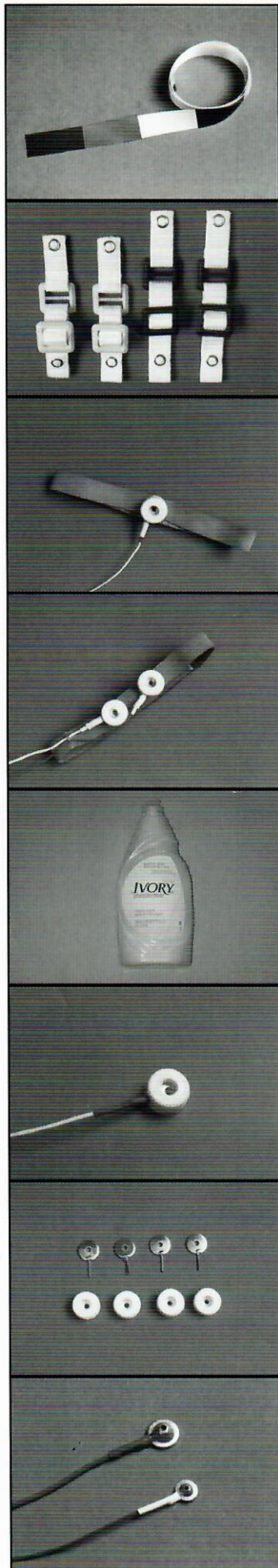
Electro-Cap components sold separately for repair purposes.

## E21-9S DISK ELECTRODE\*- Standard 9mm cup.

## E21-6S DISK ELECTRODE\*- Infant 6mm cup.

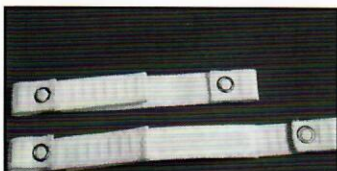
A pure tin cup electrode with a 48" (122cm) lead wire and a female socket.

\*All electrodes are available with a 2mm male pin instead of a female socket (outside of the U.S. only). Please drop the Suffix "S" from any item you wish to receive with a male instead of a female connection.



## SUPPLIES

### E23-5 CHIN STRAPS - Length 5"



### E23-7 CHIN STRAPS - Length 7"

Used as an alternative to the E3 Body Harness for situations such as ICU and ER. Effective with combative patients and those who feel restrained by the Body Harness. Straps secure the cap by fastening under the patient's chin with Velcro®. It is recommended that E24 Chin Strap Pads be used with the Chin Straps.

### E24 CHIN STRAP PADS (package of 100)

Disposable sponge pads will provide extra comfort when using E23 Chin Straps.



### E25 ADHESIVE ELECTRODE PADS (package of 100)

Foam pads with adhesive backing. Use with E21 Disk Electrode as an alternative to the E5 Ear Electrodes or virtually any additional electrode placement (i.e. eye, ECG, EMG etc.)



### E26 ORANGE STICKS (package of 100)

Recommended for removing gel build-up from electrode disks and mounts. May also be used during routine washing procedures to aid in removing excess gel. Any objects that could scratch the metal electrode disks should not be used.



### E27 DISPOSABLE ECG ELECTRODES (package of 100)

Solid conductive membrane adheres electrode pads to all skin types and conditions, eliminating patient preparation. Electrode tab accepts E28 Alligator Clip Adapter.



### E28S ALLIGATOR CLIP ADAPTERS\* (package of 2)

For use with E27 Disposable ECG Electrodes. Alligator clip with a 48" (122cm) lead wire and a female socket. Other plug or tip sizes are available upon request.



### I2 INFA-BODY HARNESS



### I3 INFA-HEAD MEASURING TAPE



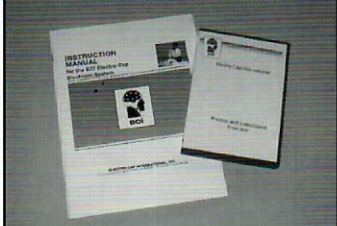
### I4 SKIN PREP PADS



### R8-(2800, 2805) MetriCide®

A cold sterilizing soaking solution recommended for disinfecting Electro-Caps. It requires no dilution, and will not damage cap fabric or the electrodes. Available in either a quart or a gallon.

### INS-1 INSTRUCTION MANUAL



### VID-1 INSTRUCTIONAL DVD

The Instruction Manual is fully illustrated with step-by-step instructions. The Instructional DVD is approximately 12 minutes in length, and covers the basic application and care of Electro-Caps.

\*All electrodes are available with a 2mm male pin instead of a female socket (outside of the U.S. only). Please drop the Suffix "S" from any item you wish to receive with a male instead of a female connection.

## INFORMATION

### ORDERING AND SHIPPING INFORMATION

U.S. and Canada - To place an order, call 800-527-2193, fax 937-456-7323, e-mail [eci@electro-cap.com](mailto:eci@electro-cap.com), or mail to: P.O. Box 87, Eaton, OH 45320

International - Distributors are available to accept orders in most countries. If you do not know the nearest distributor, please contact us for your local distributor information.

Orders for standard products are normally shipped within 24 hours from receipt. Shipments are FOB Eaton, Ohio, with freight prepaid and added to the invoice. Electro-Cap International, Inc., normally ships by UPS Ground, UPS 2nd Day Air or Air Mail. Other services, such as UPS Next Day and Federal Express, are available upon request.

### PRICING

A price sheet is included with each catalog. Prices will vary in most foreign countries, depending on shipping costs, import duty and other fees.

### LIMITED WARRANTY

Electro-Cap International Inc.'s limited warranty provides for repair or replacement of any item that, due to defects in materials or workmanship, fails to function properly within ninety (90) days from receipt.

### REPAIRS

Following the warranty period, there will be a nominal charge for repair of Electro-Caps and Electrode Board Adapters. Broken wires at the mount, inside the cap or at the connector plugs, connectors and electrode mounts are considered repairable. If malfunctions are experienced, the cap or Electrode Board Adapter can be returned to Electro-Cap International, Inc. for evaluation and repair. Normally the items will be repaired and shipped within 48 hours from receipt.

### LOANERS

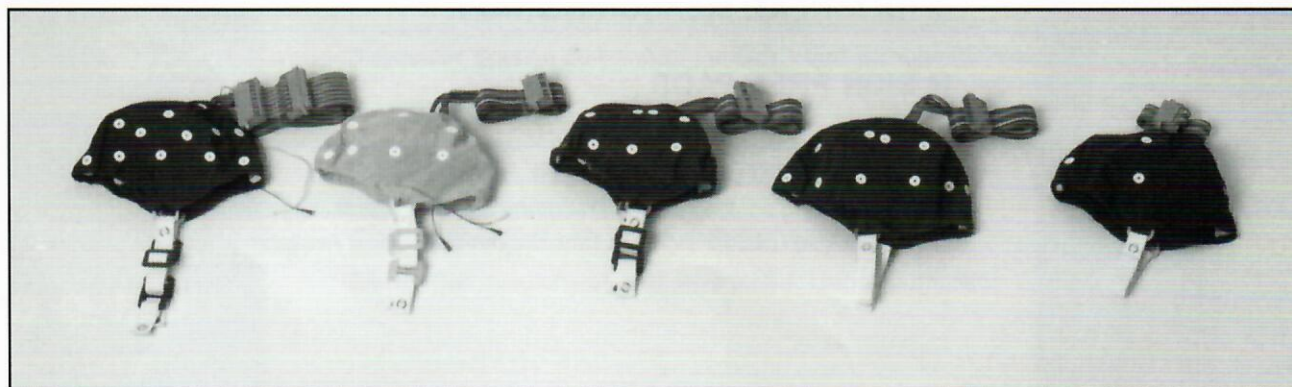
If needed, Electro-Caps and Electrode Board Adapters are available for loan during the time required to make the repairs. The only charges for loaners are freight charges if the loaners are returned promptly.

### USEFUL LIFE

Electro-Caps, when properly used and maintained, can be used for approximately 300 to 600 applications. Elasticity of the material dictates the life of the cap. When a cap becomes stretched and loses its elasticity, it must be discarded and replaced as the electrode placements will be inaccurate and artifacts will occur more often.

### RETURN POLICY

Should you experience difficulty with any Electro-Cap product, please call the Customer Service Department before returning the merchandise. Merchandise will be replaced or credited only after Electro-Cap International Inc.'s approval.



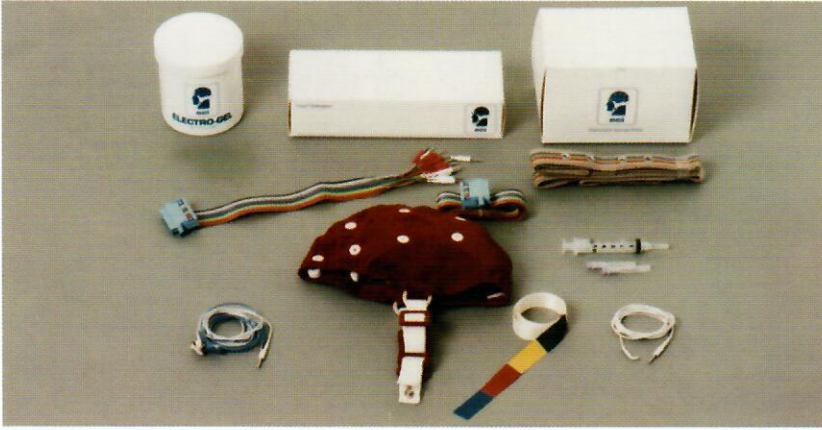
### TOPOGRAPHICAL EEG UNITS

Electro-Caps, systems and supplies are available for most commercial topographical EEG equipment.

### EVOKED POTENTIAL SYSTEMS

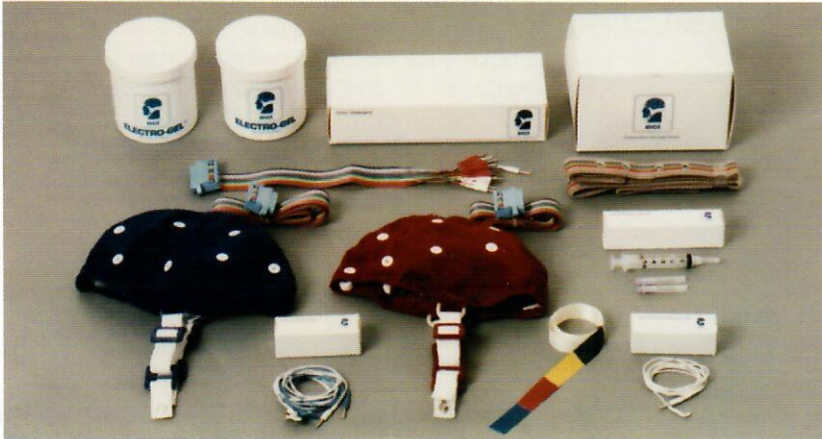
Evoked Potential Systems are designed for Evoked Potential testing in labs not currently using caps. Everything one needs to begin testing is included. If you are currently using caps in your lab, Evoked Potential caps may be ordered individually. Refer to the price sheet for the contents of Evoked Potential Systems.

## ELECTRO-CAP SYSTEMS



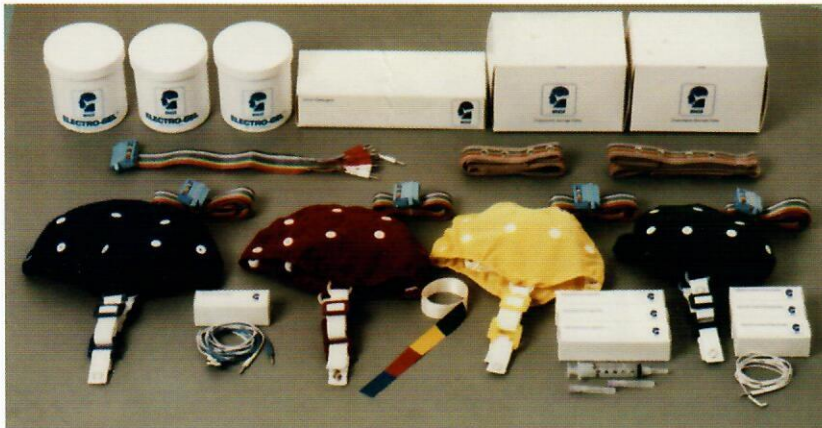
### ELECTRO-CAP SYSTEM I

- Medium Cap (1)
- Electrode Board Adapter (1)
- Body Harness (m) (1)
- Quick Insert Electrode (1)
- Ear Electrodes (1 pr.)
- Disposable Sponge Disks (1 pk. 100)
- Needle/Syringe Kit (1)
- Electro-Gel (1-16 oz.)
- Special Head Measuring Tape (1)
- Ivory® Liquid (1-24 oz.)
- Instruction Manual (1)
- Instructional DVD (1)



### ELECTRO-CAP SYSTEM II

- Large Cap (1)
- Medium Cap (1)
- Electrode Board Adapter (1)
- Body Harness (m) (1)
- Quick Insert Electrodes (2)
- Ear Electrodes (2 pr.)
- Disposable Sponge Disks (1 pk. 100)
- Needle/Syringe Kits (2)
- Electro-Gel (2-16 oz.)
- Special Head Measuring Tape (1)
- Ivory® Liquid (1-24 oz.)
- Instruction Manual (1)
- Instructional DVD (1)



### ELECTRO-CAP SYSTEM III

- Large Cap (1)
- Medium Cap (1)
- Small Cap (1)
- Extra Small Cap (1)
- Electrode Board Adapter (1)
- Body Harnesses (1 m; 1 sm.)
- Quick Insert Electrodes (4)
- Ear Electrodes (2 pr.)
- Disposable Sponge Disks (2 pks. 100)
- Needle/Syringe Kits (4)
- Electro-Gel (3-16 oz.)
- Special Head Measuring Tape (1)
- Ivory® Liquid (1-24 oz.)
- Instruction Manual (1)
- Instructional DVD (1)



### INFANT ELECTRO-CAP SYSTEM

- Infa-Cap I (1)
- Infa-Cap II (1)
- Infa-Cap III (1)
- Infa-Body Harness (1)
- Infa-Head Measuring Tape (1)
- Skin Prep Pads (1 pk. 20)

Electro-Cap Systems, except Infant Systems, provide everything needed to incorporate caps into your lab. They are available in 3 sizes to allow greater flexibility for first time purchases. Cap sizes can be substituted within the system if we are notified when your order is placed. Systems are also available with caps specially designed to be used with most commercial topographical EEG units.

# ELECTRO-CAP™ Electrode System

## Assures Superior Quality EEG Data



### SURGICAL ELECTRO-CAP

The ECI Surgical Cap (CS 2000) is a strapless Electro-Cap designed to be used for intraoperative EEG monitoring. The cap fits the head securely, thereby eliminating the need for chin straps or body harness.

Anesthetic monitoring, oxygen adequacy, electrical activity, cerebral perfusion and other brain activity deemed necessary can be monitored.

The cap greatly reduces preparation time and assures superior quality EEG data. The Surgical Caps are available with any electrode configuration and are compatible with all EEG equipment.

### CUSTOM CAPS

Custom Caps, with as few as 2 or as many as 256 electrodes, have been built for special research and clinical applications. Custom caps are produced based on customer specified electrode placements, with electrodes made of either tin, silver, silver/silver chloride, or gold plated silver. Dropped wires, small mounts, and customized wiring offer additional options. Please contact us for a Custom Cap Form.



### Electro-Cap International, Inc.

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