

Acute Care, Audio, EEG, EMG, IOM, LTM, and PSG Supplies and Accessories

Nicolet and Medelec Supplies and Accessories

International Catalogue



CardinalHealth

Essential to care™

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Disposable Needle Electrodes

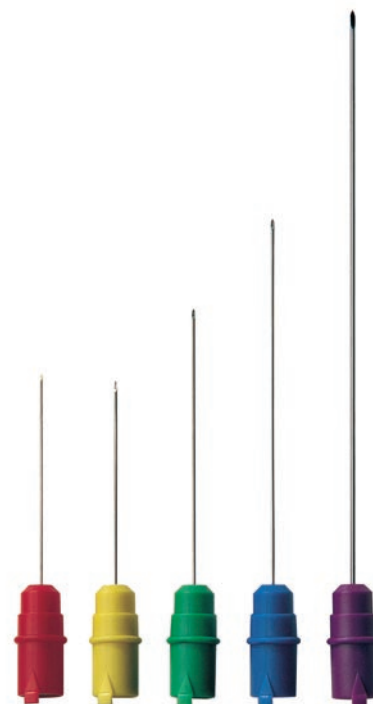
Medelec ELITE Disposable Concentric Needle Electrodes

We have combined our expertise with the knowledge and experience of our valued customers world wide and developed a NEW SHARPER disposable concentric needle which represents the most advanced product of its kind. For more information ask for a Medelec ELITE Needle data sheet. Medelec ELITE Disposable Concentric Needle Electrodes offer the following features and benefits:

- Optimal sharpness for greater patient comfort
- Orientation-free connection for ease of use
- Colour coding by needle size for easy identification
- Security clip and recording area direction indicator
- Ergonomically designed hub
- 99.9% concentricity
- Consistently low impedances for accurate recording
- Lightweight cable and hub design

Length	Needle diameter (mm)	Hub colour	Recording area (mm ²)	Part Number
25mm	0.3 (30G)	Red	0.03	S53153
25mm	0.46 (26G)	Yellow	0.07	S53155
37mm	0.46 (26G)	Green	0.07	S53156
50mm	0.46 (26G)	Blue	0.07	S53158
75mm	0.64 (23G)	Violet	0.07	S53159

25 per box.



Needles shown at actual size.

Medelec ELITE Disposable Concentric Needle Sample Kit

Contains 4 disposable concentric needles, one of each size shown below and a reusable Needle Holder (Cable) (Part # X21001). Ideal for evaluating the Medelec ELITE range of Disposable Concentric Needle Electrodes.

Length	Needle diameter (mm)	Hub Colour	Recording area (mm ²)	Part Number
25mm	0.3 (30G)	Red	0.03	S53169
25mm	0.46 (26G)	Yellow	0.07	
37mm	0.46 (26G)	Green	0.07	
50mm	0.46 (26G)	Blue	0.07	

Product Information – Medelec ELITE Disposable Needle Electrodes have been sterilized by gamma irradiation. Product Shelf Life is marked on the pack. Expiry is 3 years from sterilization date. Cardinal Health recommends that each package be inspected, prior to opening, for damage to the seal or the pouch. The product remains sterile to the expiry date as long as the seal and pouch remain undamaged and unopened. Contains no latex.



Needles shown at actual size.

Disposable Needle Electrodes



Needle Holder (Cable)

The Concentric Needle Holder has a orientation-free hub to connect the Medelec ELITE and Medelec Disposable Concentric Needles. With a Shielded 106cm cable, terminating in a 5-pin 240° DIN plug. Plugs into most EMG instruments.

Type	Qty	Part Number
Needle Holder (Cable)	1/pkg	X21001



Teca Disposable MyoJect Needles

For Botox™ therapy and nerve block procedures.

The MyoJect disposable hypodermic needles offer the following benefits

- Specifically engineered for Botox™ Therapy and Nerve Block procedures
- Records EMG activity while allowing injection of medication
- Stainless steel hypodermic needle, ground to a consistently sharp point
- Coated with a low friction insulator for ease of insertion
- Connects with a Standard Slip Fit syringe
- Colour-coded touchproof lead for easy identification

Length	Needle diameter (mm)	Lead Colour	Part Number
25mm	0.30 (30G)	Red	MJT-2530-TP
25mm	0.41 (27G)	Yellow	MJT-2527-TP
37mm	0.46 (26G)	Green	MJT-3726-TP
37mm	0.41 (27G)	Orange	MJT-3727-TP
50mm	0.51 (25G)	Blue	MJT-5025-TP
75mm	0.71 (22G)	Violet	MJT-7522-TP

10 needles per box.

MyoJect Needle Sample Kit

Contains 3 Disposable MyoJect needles and 4 lead attached surface electrodes. Ideal for evaluating the range.

Length	Needle diameter (mm)	Lead Colour	Part Number
25mm	0.41 (27G)	Yellow	017K120
37mm	0.46 (26G)	Green	
50mm	0.51 (25G)	Blue	

Important Information – Teca Disposable MyoJect hypodermic needle electrodes are made of stainless steel, coated with an insulator. FOR SINGLE USE ONLY. Individually sealed and sterilized by gamma irradiation. Each needle has a 30" (76.2cm) colour-coded lead attached. Product contains no latex.

Disposable Needle Electrodes

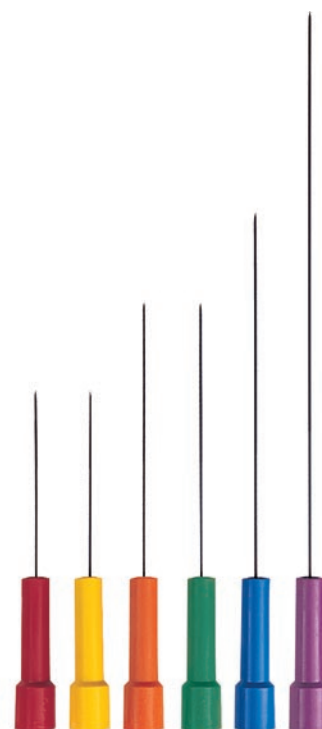
Teca Disposable Monopolar Needles

The Teca Disposable Monopolar needles offer the following benefits:

- Stainless steel needle, ground to a consistently sharp point
- Coated with a low friction insulator for ease of insertion
- Colour-coded by needle size for easy identification
- Consistently low impedance levels for accurate recordings
- Plug into a reusable, ultra-flexible rubber coated lead cable

Length	Needle diameter (mm)	Hub Colour	Recording area (mm ²)	Part Number
25mm	0.36 (28G)	Red	0.28	902-DMF25-TP
25mm	0.46 (26G)	Yellow	0.34	902-DMG25-TP
37mm	0.36 (28G)	Orange	0.28	902-DMF37-TP
37mm	0.46 (26G)	Green	0.34	902-DMG37-TP
50mm	0.46 (26G)	Blue	0.34	902-DMG50-TP
75mm*	0.46 (26G)	Violet	0.34	902-DMG75-TP

48 per box *Note: Part # 902-DMG75-TP in boxes of 24 electrodes.



Needles shown at actual size.

Non-shielded Reusable Lead Cable

To connect to the Teca Disposable Monopolar Needle. 24" (61 cm) ultra-flexible insulated lead wire with molded connectors. Terminating in a touchproof plug to connect to most EMG instruments. 6 per pack.

Type	Qty	Part Number
Reusable Lead Cable	6/pkg	902-RLC-TP

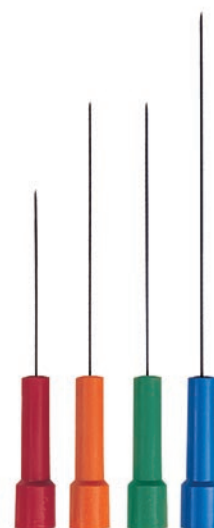


Monopolar Needle Sample Kit

Contains 4 Teca Disposable Monopolar needle electrodes, a reusable lead cable and 4 lead attached surface electrodes. Ideal for evaluating the range.

Length	Needle diameter (mm)	Hub Colour	Recording area (mm ²)	Part Number
25mm	0.36 (28G)	Red	0.28	017K121
37mm	0.36 (28G)	Orange	0.28	
37mm	0.46 (26G)	Green	0.34	
50mm	0.46 (26G)	Blue	0.34	

Product Information – Teca Disposable Monopolar needle electrodes are made of stainless steel, coated with an insulator. FOR SINGLE USE ONLY. Individually sealed and sterilized by gamma irradiation. Product contains no latex.



Needles shown at actual size.



Reusable Indicator Concentric Needles

These new reusable concentric needles provide both a visual as well as tactile indication of the needles' recording orientation. The electrodes contain a platinum-iridium core within a stainless steel cannula. Color-coding of the hubs makes identifying the needle size simple, and the 360° no-orientation, coaxial connector provides quick connection and removal of the electrode from a reusable cable.

Size	Diameter	Gauge	Qty	Part Number
25mm (1.00")	.30mm	30	1/pkg	019-426200
40mm (1.56")	.50mm	27	1/pkg	019-426400
60mm (2.38")	.60mm	23	1/pkg	019-426500



Reusable Indicator Single Fibre Needles

Our Indicator Single Fibre Needles have a platinum side-port recording surface approximately 3.0mm from the tip of the needle point, opposite of the beveled surface. The hub design features a raised spline that indicates the orientation of the recording surface. The unique indicator provides both visual and tactile verification of the recording port location. Additionally, the hub has a 360° no orientation coaxial connector that is designed to reduce noise and provide optimal EMG recordings.

Type	Length	Part Number
Indicator Single Fibre Needles	25mm, 27G	019-425900
Indicator Single Fibre Needles	40mm, 26G	019-426000

Reusable Stimulating and Recording Electrodes



Needle Holder

Kevlar EMG Cables are 1.2m long and feature an all-plastic DIN connector and a subminiature gold-plated electrode connector that meet all domestic and international safety standards. Works with both Reusable Indicator Concentric needles and Single Fibre needles.



Type	Part Number
Needle Holder	085-444700

Needle Sharpening Kit

For use with Teca Demountable Concentric, Macro and Single Fibre needle electrodes. Kit consists of a sharpening stone, magnifying glass and an adjustable vice.



Type	Part Number
Needle Sharpening Kit	18710

Viking EMG

- Flexible and easy to use
- Efficient Work Flow
- Advanced applications
- "Producer" tool



Reusable Stimulating and Recording Electrodes

Reusable Stimulating and Recording Electrodes

Digital Ring Electrodes

For sensory nerve stimulation and recording. Conductive gel should be used on each ring. Consists of 2 separate sprung stainless steel, adjustable rings with 1m long red and black PVC coated connecting wires with touchproof connections.



Type	Part Number
Digital Ring Electrodes	5032-TP

Deluxe Bipolar Stimulator Probe

For use with the Synergy range of EMG/EP instruments only. This ergonomically designed probe has controls for: stimulus intensity, stimulus on/off, acquire on/off, next, stimulus duration up/down, polarity switch; giving quick and easy testing.



The Deluxe Stimulator comes with 2 probe head options:

1. Comes with 1 probe tip head which can be rotated for a more comfortable stimulating position. The probes can be adjusted for paediatric use.
2. Comes with 2 probe tip heads – 1 with straight probe tips and 1 with angled probe tips for user preference (Part # 031K074).

Type	Part Number
Deluxe Stimulator with 2 Probe Tip Heads	031K074
Straight Probe Tip	031D067
Angled Probe Tip	032D068

Reusable Stimulating and Recording Electrodes

Stainless Steel Disk Electrodes

10mm stainless steel discs, 1 pair with red and black PVC coated, 76cm leads terminating in touchproof plugs.

Type	Part Number
Twisted Leads	6030-TP
Separate Leads	6030-3-TP



Tendon Hammer – Synergy

A hammer using a piezo element to allow fast accurate triggering of Synergy for the testing of reflex responses. The hammer is compatible with all Synergy systems, except Synergy N2, and plugs into the external trigger socket. It has a 9-way, D type plug with a 2.8m lead.

Type	Lead Length	Qty	Part Number
Tendon Hammer	2.8m	1/pkg	084C001



Tendon Hammer – Viking™

Used for mechanical triggering in reflex studies. Length of hammer is 24cm. Cable terminates in 1/8" mini-phono plug connector. May be used with most EMG systems, including the Viking™ series, Spirit™ and Bravo™ systems. 3m cable.

Type	Lead Length	Qty	Part Number
Tendon Hammer	3m	1/pkg	842-116700



Bipolar Felt Pad Electrode

For surface stimulation. Consists of 2 felt pads in a stainless steel holder. 30mm spacing between pads. A red dot, moulded into the stimulator indicates the anode. Each 1.0m cable is colour-coded for polarity. Velcro straps may be used with electrode (Part # 698-621400). 1 per pack.

Type	Length	Qty	Part Number
Bipolar Felt Pad Electrode	1.0m	1/pkg	019-401500
Replacement Pads	N/A	10/pkg	019-406700



Product Information – Before use, felt tips should be soaked in a normal saline solution for a few minutes and then coated with a small amount of electrolyte gel (Part # 016-701200 on page 38) should be applied to each.

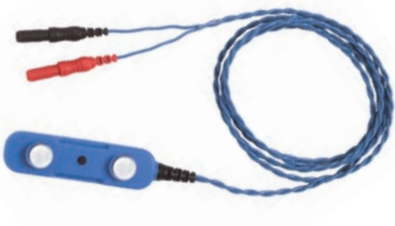
Reusable Stimulating and Recording Electrodes



Small Stimulating Electrode

Small handheld stimulating electrode with 12.7mm tip spacing, 1m lead and 2 TP plugs. Ideal for paediatric studies and blink reflex testing. 1 per pack.

Type	Length	Qty	Part Number
Bipolar Stimulator	1.0m	1/pkg	019-403800



Bar Electrode

Consists of 2 durable gold-plated stainless steel disk electrodes with 9mm diameters and 30mm spacing. Features grooved bar. Electrode is coded for polarity. Available in 2 lead lengths. 1 per pack.

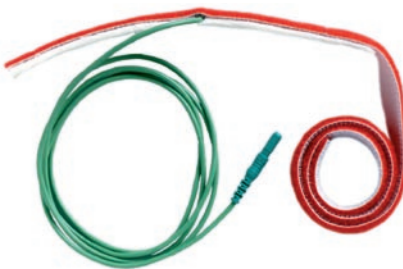
Type	Length	Qty	Part Number
Bipolar Disk	1.0m	1/pkg	019-401400
Bipolar Disk	0.5m	1/pkg	019-431400



Reusable Ground Plate Electrode

Long-lasting 30mm diameter stainless steel ground plate electrode, available in 2 lead lengths. 1 per pack.

Type	Length	Qty	Part Number
Stainless Steel	0.75m	1/pkg	019-401200
Stainless Steel	1.25m	1/pkg	019-411700



Ground Strap Electrode

Grounding "wrap-around" style electrode, 20mm wide. 1.25m lead available in Adult and Paediatric sizes. 1 per pack.

Type	Length	Qty	Part Number
Adult (54cm)	1.25m	1/pkg	019-405900
Paediatric (24cm)	1.25m	1/pkg	019-415900

Reusable Stimulating and Recording Electrodes

Finger Clip Electrode

Reusable stainless steel finger-clip electrodes have 0.50m twisted PVC-insulated lead wires with touch proof connectors. The clips have an easy-to-use spring-like action for quick electrode placement. 1 pair per pack.

Type	Length	Qty	Part Number
Finger Clip Electrodes	0.5m	1/pkg	019-429300



Snap-On T-Handle

Moulded T-Handle fits the bar or felt pad electrode and allows more flexibility and ease of use when changing or adjusting test sites. The handle is designed to easily snap on and off. 1 per pack.

Type	Qty	Part Number
T-Handle	1/pkg	019-421000



Velcro® Straps

Velcro® straps provide comfort to your patient while holding electrodes securely. Straps may be attached to each other for large limb applications. 2cm x 55cm. Packs of 3. Single longer rolls can be cut to desired length.

Type	Length	Qty	Part Number
Red Velcro® Strap	55cm	3/pkg	698-621400



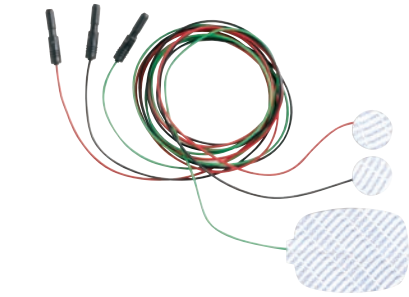
Product Information – Some sources of artifact/poor recording.

- Stimulator lead wires near recording electrodes – separate recording and stimulating leads.
- Water or electrode gel between poles – dry carefully.



Disposable Adhesive Electrodes

Electrodes and Accessories

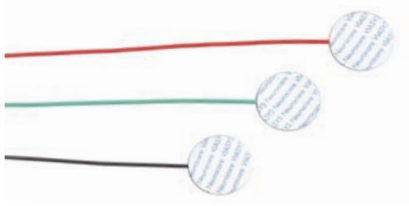


Disposable Adhesive Electrodes

Disposable NCV Kit with Leads

Disposable electrode set for nerve conduction studies. Set contains 2 pre-gelled silver/silver chloride 20mm disks and 1 disposable ground plate electrode. These electrodes come with colour-coded 1.0m touchproof lead wires attached. Single patient use only. 24 kits per pack.

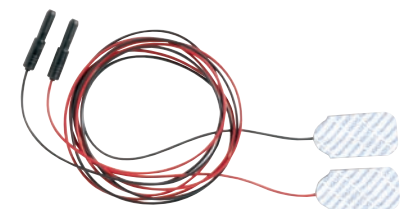
Type	Lead Length	Qty	Part Number
NCV Test Kit	1.0m	24 kits/pkg	019-415200



Disposable 3-Disk Electrode Set with Leads

Disposable electrode set contains 3 pre-gelled silver/silver chloride 20cm disks. Comes with colour-coded 1.0m touch proof lead wires in green, red and black. Single patient use only. 24 sets per pack. Ideal for AEP and NCS studies.

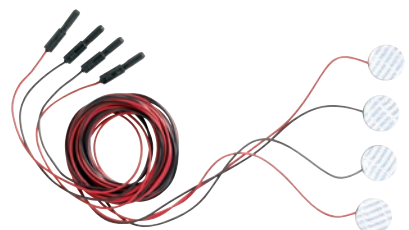
Type	Lead Length	Qty	Part Number
Disk	1.0m	24 sets/pkg	019-414200



Disposable Tab Electrodes with Leads

Disposable electrode set contains 2 pre-gelled silver/silver chloride tab electrodes with contact area measures 20mm x 25mm and 1m touchproof leads. 2 colour-coded (red and black) electrodes per pouch. Single patient use only. 24 pairs per pack. Ideal for SEP, AEP and IOM.

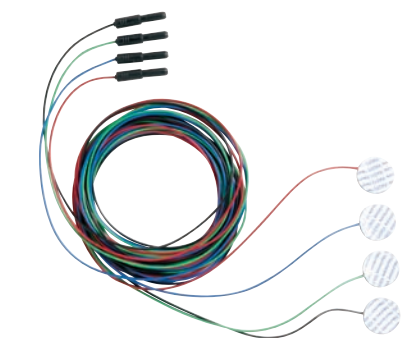
Type	Lead Length	Qty	Part Number
Tab	1.0m	24 pair/pkg	019-406600



Disposable 2x2 Electrode Set with Leads

Disposable silver/silver chloride pre-gelled electrode set contains 4 disk electrodes 20mm diameter. Each pouch contains 2 red and 2 black colour-coded electrodes. Available in 2 touchproof lead lengths. Single patient use. 24 sets per pack. Ideal for IOM applications.

Type	Lead Length	Qty	Part Number
Disk	1.5m	24 sets/pkg	019-415000
Disk	3.0m	24 sets/pkg	019-420800



Disposable 4-Disk Electrode Set with Leads

Disposable silver/silver chloride pre-gelled electrode set contains 4 disk electrodes 20mm diameter with leads attached. 4 colour-coded (red, blue, green and black) electrodes per pouch. Available in 2 touchproof lead lengths. Single patient use. 15 sets per pack. Ideal for PSG Studies, NCS, SEP, AEP, EMG, ENG and IOM.

Type	Lead Length	Qty	Part Number
Disk	1.0m	15 sets/pkg	019-400400
Disk	2.0m	15 sets/pkg	019-409000

Electrodes and Accessories

Disposable Surface Electrodes

Disposable silver/silver chloride pre-gelled electrodes have a recording area of 20mm x 15mm and come with 1m touchproof white leads. Single patient use. 12 electrodes per pack. Ideal for infant and small children use.

Type	Lead Length	Qty	Part Number
Surface Electrodes	1.0m	12/pkg	019-408500



Disposable 3 Disk Transparent Electrode Set

Disposable silver/silver chloride transparent electrodes with lead attached enable you to see exactly where the recording area is placed. Electrode size is 474mm² with a recording area of 54mm². Electrodes can be repositioned several times during a study. 3 electrodes per pouch with colour-coded leads (red, green and black), available in 3 lead lengths. Single patient use. 4 sets per pack. Ideal for NCV, EP and ENG studies.

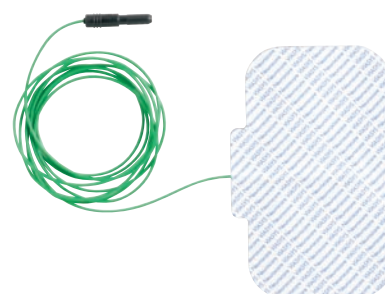
Type	Length	Qty	Part Number
Ag/AgCL Sensor	0.8m	12/pkg	019-434700
Ag/AgCL Sensor	1.2m	12/pkg	019-434800



Disposable 2" x 4" Ground Plate Electrode with Leads

Disposable silver/silver chloride pre-gelled extra large ground electrodes with 1.5m green lead wire attached has a surface area 2"x4" (100mm x 60mm). 1 electrode per pouch. Single patient use only. 24 pouches per pack. Ideal for ICU or electrically hostile environment.

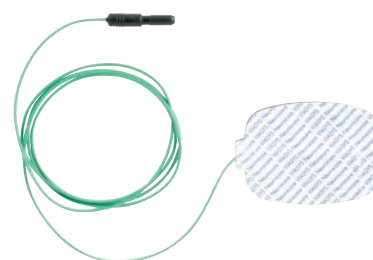
Type	Lead Length	Qty	Part Number
2X4 Ground	1.5m	24 pouches/pkg	019-422200



Disposable Ground Plate Electrode with Lead

Disposable pre-gelled, silver/silver chloride contact area, 40mm x 50mm with lead attached. One electrode per pouch, available in 2 touchproof lead wire lengths. Single patient use only. 24 electrodes pack. Ideal for EMG, NCS, SEP and IOM.

Type	Lead Length	Qty	Part Number
Ground	1.0m	24 pouches/pkg	019-400500
Ground	2.0m	24 pouches/pkg	019-409100



Synergy EMG

- 6 Steps to Report and On-Line Report
- Flexible and Easy to Use
- Efficient Work Flow
- Patient Side Controls



Disposable Adhesive Electrodes

Electrodes and Accessories



Disposable Ground/Tab Electrodes

Disposable pre-gelled, silver/silver chloride tab/ground electrodes contact area measures 22mm x 32mm. Requires reusable Alligator Clip lead wires (see page 14). 10 electrodes per pouch, 10 pouches per box. Single patient use only. Ideal for NCS and SEP.

Type	Qty	Part Number
Ground	100 electrodes/pkg	019-435300



Disposable Ring Electrodes

Disposable pre-gelled, silver/silver chloride ring electrode, contact area measures 8mm x 95mm. 20 electrodes per pouch, 10 pouches per box. Single patient use only. Requires reusable Alligator Clip lead wires (see page 14). Ideal for NCS.

Type	Qty	Part Number
Ring	200 electrodes/pkg	019-435500



Disposable Bar/Disc Electrodes

Disposable pre-gelled, silver/silver chloride bar electrode contact area measure 12mm x 18mm, with 25mm spacing between contact areas that have the centers clearly marked for easy placement. They can also be perforated down the middle to enable them to be used as individual disc electrodes. Requires reusable Alligator Clip lead wires (see page 14). 10 electrodes per pouch, 10 pouches per box.

Type	Qty	Part Number
Bar	100 electrodes/pkg	N6003



Disposable Ground Plate Electrodes

Disposable pre-gelled, silver/silver chloride ground plate electrode, contact area measures 40mm x 50mm. Requires reusable Alligator Clip lead wires (see page 14). 2 electrodes per pouch. 25 pouches per box. Single patient use only. Ideal for NCS.

Type	Qty	Part Number
Ground Plate	50 electrodes/pkg	019-768500

Electrode Kits

100 Patient Kit

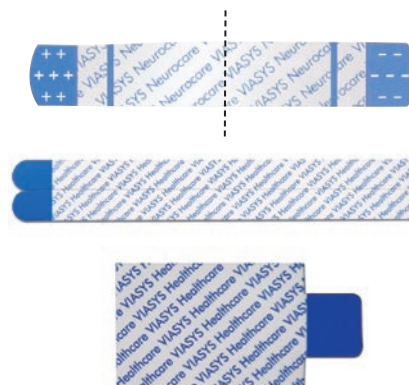
Contains 100 bar (N6003), 200 digital ring and 140 ground electrodes. Requires reusable Alligator Clip lead wires (see page 14).

Type	Qty	Part Number
100 Patient Kit	200 bar, ground & ring electrodes/pkg	N2000

30 Patient Kit

Contains 60 bar (N6003), 60 digital ring and 60 ground electrodes. Requires reusable Alligator Clip lead wires (see page 14).

Type	Qty	Part Number
30 Patient Kit	60 bar, ground & ring electrodes/pkg	N2025



Disposable Snap Electrodes

Disposable Centre Snap Square Electrodes

Disposable solid gel 2.5cm x 2.5cm (1" x 1") cloth-backed electrodes with aggressive adhesive that makes it ideal for extended recording sessions. This solid-gel electrode is easy to use and requires no cleanup. Single patient use only. Ideal for PSG studies. 15 electrodes per pack.

Type	Qty	Part Number
Square Snap	15/pkg	019-427000



Disposable Centre Snap Rectangular Electrodes

The recording area is made of a solid-gel silver/silver chloride, and the electrode contact/recording area is 22mm x 20mm. The electrodes are easy to use and require no cleanup. Ten electrodes per pack, 25 packs per box. Single patient use only. Ideal for AEP and ENG procedures.

Type	Qty	Part Number
Rectangle Snap	25/pkg	019-767700



Disposable Centre Snap Round Electrodes

Pre-gelled silver/silver chloride foam electrode with 15mm diameter recording area. Ten electrodes per pack. Single patient use only. Recommended for use with any ABR or ENG system, ideal for AEP and ENG applications.

Type	Qty	Part Number
Round Snap	10/pkg	842-507900



Disposable Adhesive Electrodes

Electrodes and Accessories



Disposable Dual SEMG Electrode

The wet gel and foam conductive areas are 20mm centre to centre and have a convenient tab for easy removal. May be used with reusable snap leads (see next page) or shielded snap lead cable (see below). 15 electrodes per pack. Single patient use only. Ideal for surface EMG and NCV studies or electrical stimulation.

Type	Qty	Part Number
Dual SEMG	15/pkg	019-429400

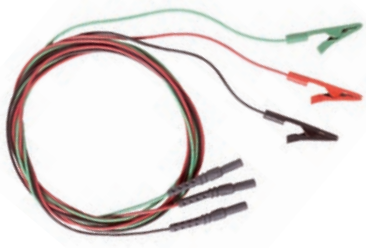


Disposable Side Snap Electrode

Pre-gelled, silver/silver chloride foam electrode contact area, 20mm x 30mm. 25 electrodes per pack. Single patient use only. Ideal for ENG, AEP, IOM and PSG studies.

Type	Qty	Part Number
Side Snap	25/pkg	019-745100

Reusable Leads



Alligator Clip Lead Wire Kit

1.25cm long Alligator Clip leads with touchproof connectors for use with Disposable Surface Electrodes without leads (see pages 12-13). Neatly clips onto electrodes, avoiding contact with gel. Available in red, green and black.

Type	Lead Length	Qty	Part Number
Complete Set	1.25m	1 set/pkg	117-401900
Red/Black Pair	1.25m	1 pair/pkg	019-417000
Ground	1.25m	1/pkg	019-417200



Shielded 3-Clip Cable

Reusable 1.2m shielded 3-clip lead cable with 5-pin DIN connector. For use with disposable surface/ground electrodes. Designed for an 'active, reference and ground' electrode configuration. 1 lead per pack.

Type	Lead Length	Qty	Part Number
3-Clip Cable	1.2m	1/pkg	085-449100



Long 61cm 24" Lead Set

Lead wires with Alligator Clips terminating in touchproof plugs. 1 of each red, black, green.

Part Number
CB0102

Disposable Adhesive Electrodes

Electrodes and Accessories

Short 20cm 8" Lead Set

Lead wires with Alligator Clips terminating in touchproof plugs.
1 of each red, black, green.

Part Number
CB0101



Shielded 2-Snap Lead Cable

2-snap, 1.5m shielded lead that terminates into 5-pin DIN connector that will fit most EMG machines. For use with Snap Electrodes. 1 lead per pack.

Type	Lead Length	Qty	Part Number
Snap Lead	1.5m	1/pkg	085-452500



Reusable Snap Leads

Designed for use with our Disposable Snap Electrodes. 5 electrodes with touchproof connectors. 5 colour-coded leads per pack (blue, grey, purple, green and yellow). Available in 4 lead lengths.

Type	Lead Length	Qty	Part Number
Snap Leads	1.0m	5/pkg	019-419000
Snap Leads	1.5m	5/pkg	019-419100
Snap Leads	2.0m	5/pkg	019-419200
Snap Leads	3.0m	5/pkg	019-419300



Snap Leads

Reusable 152 cm (60") snap leads ideal for use where only 2 electrodes are required. 2 colour-coded leads per pack (blue and grey).

Type	Lead Length	Qty	Part Number
Snap Leads	1.5m	1 pair/pkg	019-424500



Shuttle Cable

Shielded connection cable, 24" (61cm) long, with 3 Touchproof sockets terminating in a 5-pin DIN plug.

Part Number
2002-TP



Disposable Electrodes for IOM

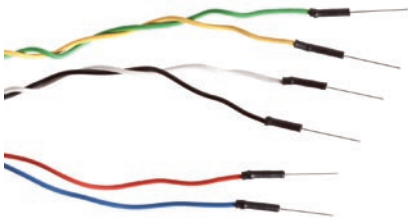
Disposable 12mm Subdermal EEG Needles



Disposable Subdermal needles 12mm in length, and is 0.4mm diameter (27 gauge). Needles available in stainless steel or platinum/iridium. 5 colour-coded leads, (5 each of blue, green, red, white and yellow). Individually packaged. 25 needles per pack. Available in 3 lead lengths.

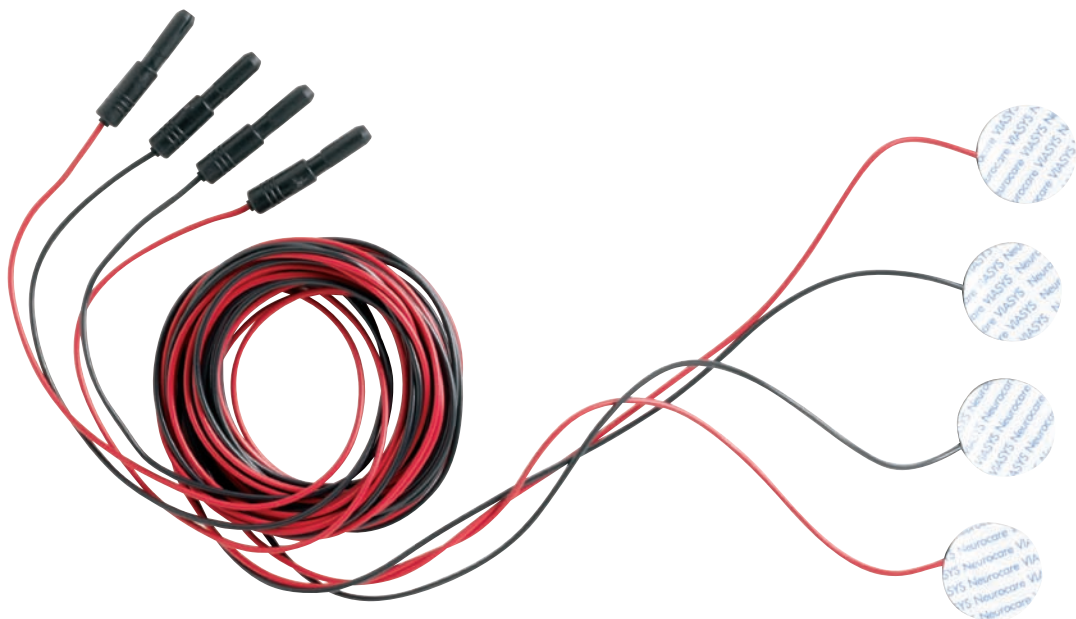
Type	Lead Length	Qty	Part Number
Stainless Steel	1.0m	25/pkg	019-409700
Stainless Steel	1.5m	25/pkg	019-409800
Stainless Steel	2.5m	25/pkg	019-409900
Platinum/Iridium	1.5m	25/pkg	019-404300

Disposable 12mm Twisted Pair Subdermal Needles



Disposable twisted pair stainless steel subdermal needles 12mm, 0.4m (27 gauge) are designed to help improve signal quality in electrically hostile environments such as the OR and ICU. Colour-coded pairs (green, yellow, white, black, blue and red). 3 pairs per pack.

Type	Lead Length	Qty	Part Number
Stainless Steel	2.0m	3 pair/pkg	019-421900



Disposable Electrodes for IOM

Disposable Corkscrew Electrode

Disposable Corkscrew Electrodes have a 1cm hub and 1.0m colour-coded lead. Designed to stay in place during surgery. Six electrodes per pack (red, yellow, grey, blue, green and white). Single patient use only. Ideal for Monitoring EEG and/or evoked potentials during surgery.

Type	Lead Length	Qty	Part Number
Corkscrew	1.0m	6/pkg	019-425100



Disposable EEG Cup Electrodes

The 10mm cups have a 2mm centre hole and the recording surface is silver/silver chloride. Packaged 10 electrodes per pack, lead wires are uniquely colour-coded (yellow, orange, red, gray, blue, green, brown, black, white and purple). Available in 2 lead lengths 1m or 1.5m lengths. Ideal for use with open wounds, head trauma and IOM cases.

Type	Lead Length	Qty	Part Number
Disposable Cups	1.0m	10/pkg	019-434400
Disposable Cups	1.5m	10/pkg	019-434500



Disposable Hook Wire Electrodes

These high quality hook-wire electrodes feature 10cm of 44ga (.05mm) insulated nickel alloy wire. We offer them in either a single or paired-wire configuration. (Requires Micrograbbers, Part # 085-416800 on page 24). Single use only.

Paired hook-wire electrodes: Ends of wires positioned so 2mm of 1 wire and 5mm of the second wire exit at end of needle. The first wire is stripped 2mm, while the second wire is insulated for 3mm after it exits the needle and then stripped 2mm.

Single hook-wire electrodes: End of wire is positioned so 5mm of wire exits the end of needle and is bent back. The end of the wire is insulated 3mm and stripped 2mm.

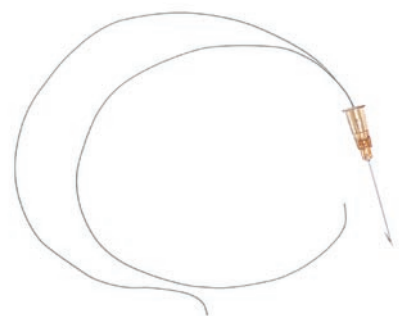
Type	Size	Gauge	Qty	Part Number
Single	30mm	27ga	10/pkg	019-772700
Paired	30mm	27ga	10/pkg	019-772800
Single	50mm	25ga	10/pkg	019-772900
Paired	50mm	25ga	10/pkg	019-773000



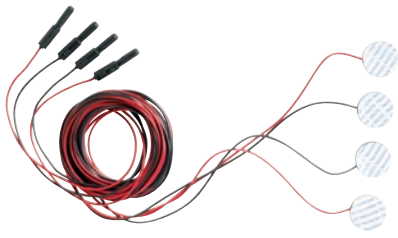
Long Lead Hook-Wire Electrodes

Our line of hook-wire electrodes incorporate an insulated lead measuring 12" (30cm) from the needle hub. The first 10mm of the 40ga (.08mm) stainless steel lead wire is exposed to make it easy to connect using Micrograbbers (Part # 085-416800) found on page 24 or Alligator Clips (Part # 019-417000) found on page 14. These dual and single hook-wire electrodes are well-suited for collecting deep muscle EMG readings. The dual hook-wire electrodes are designed so that 5mm of one wire, and 7mm of the other extend from the tip of the needle. The last 2mm of each wire is stripped, though their dissimilar lengths produce a staggered position when inserted. Fine 0.0798mm (40ga.) insulated stainless steel wire is used in these electrodes.

Type	Size	Gauge	Qty	Part Number
30mm/pair	1.2" (0.45mm)	26ga	5/pkg	019-430900
50mm/pair	2.0" (0.50mm)	25ga	5/pkg	019-431000
85mm/single	3.4" (0.50mm)	25ga	5/pkg	019-431900
100mm/pair	3.94" (0.64mm)	23ga	5/pkg	019-431100
100mm/single	3.94" (0.64mm)	23ga	5/pkg	019-431200



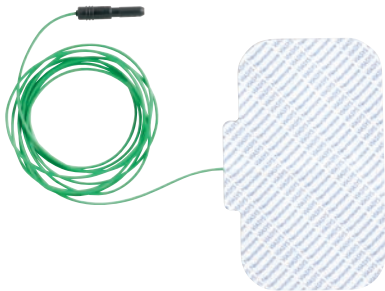
Disposable Electrodes for IOM



Disposable 2X2 Electrode Set with Leads

Disposable silver/silver chloride pre-gelled electrode set contains 4 disk electrodes 20mm diameter. Each pouch contains 2 red and 2 black colour-coded electrodes. Available in 2 touchproof lead lengths. Single patient use. 24 sets per pack. Ideal for IOM applications.

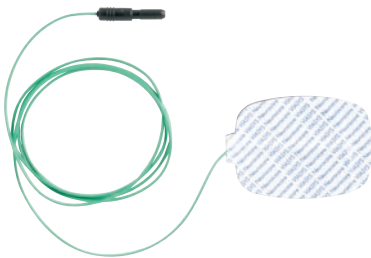
Type	Lead Length	Qty	Part Number
Disk	1.5m	24 sets/pkg	019-415000
Disk	3.0m	24 sets/pkg	019-420800



Disposable Ground Plate Electrode with Lead

Disposable silver/silver chloride pre-gelled extra large ground electrodes with 1.5m green lead wire attached has a surface area 2"x4" (100mm x 60mm). 1 electrode per pouch. Single patient use only. 24 pouches per pack. Ideal for ICU or electrically hostile environment.

Type	Lead Length	Qty	Part Number
Ground	1.0m	24 pouches/pkg	019-400500
Ground	2.0m	24 pouches/pkg	019-409100



Disposable 2" x 4" Ground Plate Electrode with Leads

Disposable pre-gelled, silver/silver chloride contact area, 40mm x 50mm with lead attached. One electrode per pouch, available in 2 touchproof lead wire lengths. Single patient use only. 24 electrodes pack. Ideal for EMG, NCS, SEP and IOM.

Type	Lead Length	Qty	Part Number
2X4 Ground	1.5m	24 pouches/pkg	019-422200



Endeavor CR Intraoperative Monitor

- Superior amplifier delivers clean averages in fewer steps
- Trending allows for fast response to clinical changes
- Remote viewing allows experts to see into the OR without entering the OR

Disposable Probes

Disposable Epidural Spinal Electrode

Intended for use as a recording electrode for monitoring intra-operative spinal cord evoked potentials. Electrode is monopolar and must be referenced to another electrode. Electrode consists of a 5mm long, 1.0mm diameter round stainless steel tip on a 120mm flexible Teflon™ wire. The Teflon™ wire attaches to a 1.0m silicone lead. Single patient use.

Type	Lead Length	Qty	Part Number
Stainless Steel	1.0m	1/pkg	019-405600

Caution: Not intended for use as a stimulating electrode.



EEG Ball/Pedicle Screw Electrode

The EEG Ball Recording/Stimulation Electrode has a 3mm ball-tip, plated with either gold or silver. The 3mm ball connects to a 100mm or 150mm pliable shank, that maintains its shape when bent. Attached to the shank is a 1.0m lead-wire terminating in a DIN (safety) connector.

Can be used for applications such as: Nasopharyngeal recordings, stimulating cranial nerves, peripheral motor nerves, spinal nerve roots, and assessing Pedicle Screw placement. Sterilization is required prior to use.

Type	Shank	Lead Length	Qty	Part Number
Gold	100mm	1.0m	1/pkg	019-404800
Gold	150mm	1.0m	1/pkg	019-404900
Silver	150mm	1.0m	1/pkg	019-416500
Ag/AgCL	150mm	1.0m	1/pkg	019-416700



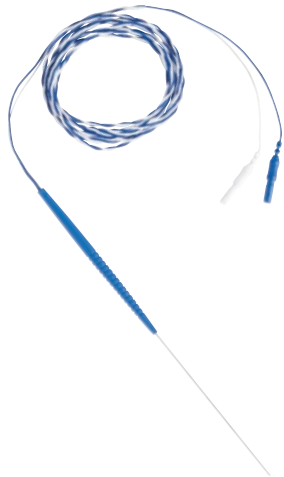
Pre-sterilized Disposable Strip and Grid Electrode

For use in electrocorticography, cortical stimulation and other intra-operative monitoring procedures. Available in three configurations. Thin, flexible silicone electrodes have platinum contact discs with 1.0cm spacing and easy-to-identify numeric labels. The lead wire from each contact terminates in touchproof plugs. Sterile, single patient use only. Not for implantation.

Type	Lead Length	Qty	Part Number
1X8 Strip	1.5m	1/pkg	019-429000
1X4 Strip	1.5m	1/pkg	019-429100
2X4 Grid	1.5m	1/pkg	019-429200



Disposable Probes



Disposable Concentric Probe

Designed for precise work, the disposable concentric probe is the solution with accuracy to 0.5mm. Ideal for exposed nerve sites. Supplied sterile individually packaged. Single patient use. 10 per pack.

- Length of shaft: 100mm
- Diameter: 1mm
- Length of cable: 1.9m
- Connectors: Touchproof/DIN 42 802

Type	Qty	Part Number
Disposable Concentric Probe	10/pkg	900X570

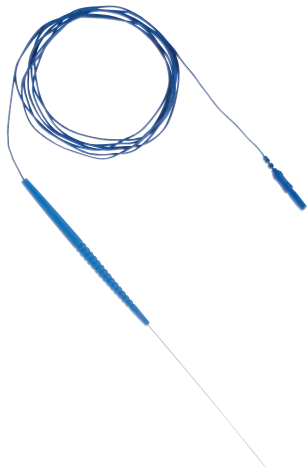


Disposable Bipolar Probe

The disposable bipolar probe will stimulate through a small amount of tissue and yet remain accurate. Supplied sterile individually packaged. Single patient use. 10 per pack.

- Length of shaft: 2 x 100mm, insulated to 2mm from tip; 2mm between tips
- Diameter: 0.75mm
- Length of cable: 1.9m
- Connectors: Touchproof/DIN 42 802

Type	Qty	Part Number
Disposable Bipolar Probe	10/pkg	900X571



Disposable Monopolar Probe

This stimulating probe is intended for stimulating across the bulk of a tumour to determine whether a nerve is lying behind a structure. Accuracy with this probe can be improved by inserting the ground electrode close to the surgical area and controlling the current level. Supplied sterile individually package. Single patient use. 10 per pack. (Requires Disposable Subdermal needle as a ground electrode.)

- Length of shaft: 100mm, insulated to 2mm from tip
- Diameter: 0.75mm
- Length of cable: 1.9m
- Connector: Touchproof/DIN 42 802

Type	Qty	Part Number
Disposable Bipolar Probe	10/pkg	900X572

Reusable Stimulating Probes

Straight Bipolar Stimulating Probe

190mm (7.5") probe. Can be used in conjunction with concentric probes to deliver both highly precise stimulation of fine fibres and the checking of large areas for the presence of neural tissue. Electrode tips are 2mm apart. Terminated with touchproof plugs. Sterilize before use. 1 per pack.

Part Number

900X143



Straight Concentric Stimulating Probe

190mm (7.5") probe. Short and straight, allowing easy stimulation of small fibres for very precise stimulation. Electrodes are 0.25mm apart. Terminated with touchproof plugs. Sterilize before use. 1 per pack.

Part Number

900X144



Bayonet Concentric Stimulating Probe

220mm (8.75") probe. Allows very precise stimulation of the nerve. Stimulating electrode has a diameter of 0.4mm. Ideal for use under the microscope. Electrodes are 0.25mm apart. Terminated with touchproof plugs. Sterilize before use. 1 per pack.

Part Number

900X141



Pedicle Screw Probe

160mm (6.5") probe. To be used when monitoring correct drilling during pedicle screw placement. 3mm stainless steel ball on the end of monopolar probe. A single subdermal needle is supplied with the probe, to be used as a reference. Terminated with touchproof plugs. Sterilize before use. 1 per pack.

Part Number

900X138



Reusable Stimulating Probes



PolarProbe Handle

PolarProbe is a convenient device for surgeons who require an electrode that directly stimulates a nerve or records its electrical activity. It features a reusable handle, 2.0m cable comes ready-for-sterilization. Also requires disposable tips.

Type	Lead Length	Qty	Part Number
Tapered Handle	2.0m	1/pkg	019-400800



Disposable Ball Tips

Pre-sterilized. Single use only. Rigid stainless steel wire, 8mm spacing, 85mm tip length.

Tip Type	Spacing	Length	Qty	Part Number
Ball	8mm	85mm	5/pkg	019-408600



Disposable Flush Tips

Pre-sterilized. Rigid stainless steel wire, 6mm spacing, 85mm tip length.

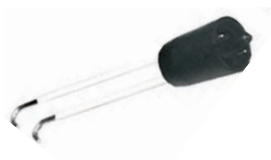
Tip Type	Spacing	Length	Qty	Part Number
Flush	6mm	85mm	5/pkg	019-408700



Disposable Right Angle Tips

Pre-sterilized. Rigid stainless steel wire, 6mm spacing 80mm tip length, 4mm exposed area.

Tip Type	Spacing	Length	Qty	Part Number
Right-Angle	6mm	80mm	5/pkg	019-408800



Disposable Hooked Tips

Pre-sterilized. Rigid stainless steel wire, 10mm spacing 64mm tip length.

Tip Type	Spacing	Length	Qty	Part Number
Hooked	10mm	64mm	5/pkg	019-400900

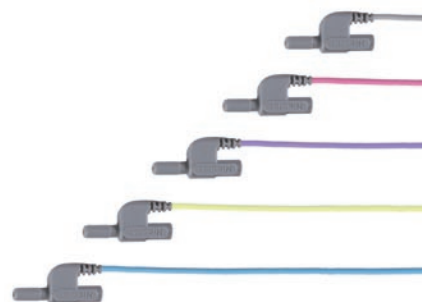
Product Information – The above Stimulating Probes will work with any stimulator that utilizes standard touchproof plugs. All come with 2m (79") leads and are gas and steam autoclavable. Maximum autoclave temperature should be 138°C, holding time 3 minutes.

Reusable Leads

Linkers/Jumpers

The cables are 50cm (20") tip to tip and have a standard male and female DIN connection at each end. They are colour-coded to quickly identify multiple connections (pink, grey, purple, blue, green and yellow). Ideal for use with external stimulators or devices requiring a touchproof connection.

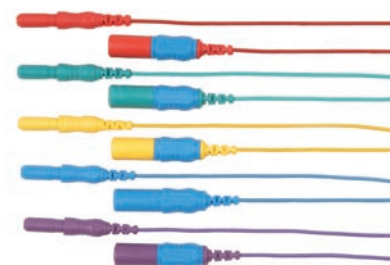
Type	Lead Length	Qty	Part Number
Linkers/Jumpers	50cm (20")	6/pkg	019-433000



Reusable Extension Cables – 6 Pack

Reusable touchproof extension cables. Available in 2 lead lengths and 6 colours (green, blue, yellow, pink, purple and gray). Ideal for use when longer electrode cables are needed during PSG studies. 6 per pack. High-quality adaptors for PIN and DIN equipment. Female to male adaptor should be fixed in headbox and remain there permanently to allow use of DIN electrodes in older system headboxes.

Type	Lead Length	Qty	Part Number
Extension Cables	1.0m	6/pkg	019-431500
Extension Cables	2.0m	6/pkg	019-401100



Rhizotomy Hook Cables

These cables may be used with Rhizotomy Hooks or a Rhizotomy Stimulator Probe. The cables are built with a 2-56 threaded connector at one end and a touchproof connector at the other. The package contains one red and one black cable, each 3 metres in length. The cables may be steam sterilized prior to use.

Type	Lead Length	Qty	Part Number
Stainless Steel	3m	1 pair/pkg	085-460000



Shielded 2-Snap Lead Cable

2-snap, 1.5m shielded lead that terminates into 5-pin DIN connector that will fit most EMG machines. For use with Snap On electrodes. 1 lead per pack.

Type	Lead Length	Qty	Part Number
Snap Lead	1.5m	1/pkg	085-452500



Reusable Leads



Reusable Extension Cable – Twisted

Reusable 1.0m red and black twisted lead touchproof extension cable is perfect for recording and reference electrode pairs that require a little extra length.

Type	Lead Length	Qty	Part Number
Extension Cable	1.0m	1/pkg	019-408400
Extension Cable	2.0m	1/pkg	019-432200



Shielded 3-Clip Cable

Reusable 1.2m shielded 3-clip lead cable with 5-pin DIN connector. For use with disposable surface/ground electrodes. Designed for an 'active, reference and ground' electrode configuration. 1 lead per pack.

Type	Lead Length	Qty	Part Number
3-Clip Cable	1.2m	1/pkg	085-449100



Reusable InLine RF Filter

The InLine RF Filter is designed to provide the same protection as our OR headboxes but on an individual electrode basis. The RF Filter cable will accept any standard touchproof electrode connector/socket in headboxes supplied from most manufacturers.

Type	Lead Length	Qty	Part Number
RF Filter	22cm	2/pkg	019-421500
RF Filter	22cm	18/pkg	019-421600



Micrograbbers

May be used with disposable EMG Hook-Wire Electrodes. 2m lead wire with touchproof connectors. 1 red and 1 black lead per pack.

Type	Lead Length	Qty	Part Number
Micrograbbers	2.0m	1 set/pkg	085-416800



Shielded Subdermal Needle Cable

Reusable 2.0m Kevlar® shielded cable for use with short lead subdermal needles. This cable will fit any 5-pin DIN connector. The cable is reinforced with Kevlar®. 1 per pack.

Type	Lead Length	Qty	Part Number
Subdermal Cable	2.0m	1/pkg	085-448600

Other IOM Accessories

PR Head Box Overlays

Pre-printed or re-writable head box overlays for use with the Viking OR Headbox. Takes the guessing out of connecting your electrodes and reducing confusion from incorrect connector placement.

Type	Qty	Part Number
Re-writable	10/pkg	117-400400



Auditory Stimulation Accessories



Auditory Stimulation Accessories

Unshielded Headphones

Unshielded TDH49P audiometric headphones with 3.5m cable and 180° 5-pin DIN plug.

Type	Part Number
Synergy N & T Series	040K021
Synergy Mobile & Portable	031K048

Acoustically Shielded Headphones

Acoustically shielded TDH49P audiometric headphones with 3.5m cable and 180° 5-pin DIN plug.

Type	Part Number
Synergy N & T Series	040K022

Earphone

Used with eartip inserts 51019-51023 to deliver auditory stimuli, 1m lead terminating in 180° 5-pin DIN plug.

Type	Part Number
Synergy N & T Series	040K023



Intra-Auricular Headset

This headset is a stereo version of the Earphone (Part # 040K023). Due to its light weight and small size, it is ideal for use in IOM, as well as auditory testing of children and neonates. For use with eartips 51019-51023. 1.5m lead terminating in 180° 5-pin DIN plug.

Type	Part Number
Synergy N & T Series	040K024

Eartips

Used with the Intra-Auricular Headset and Earphone. These are made from wipe-clean PVC and are autoclavable. Keep tips separated during autoclaving. Note: Being tube coupled, a delay of 0.3ms (time taken for stimulus to travel tube length and be delivered from ear tip) should be introduced. 10 per pack.



Type	Part Number
Premature	51023
Neonatal	51019
Infant	51020
Child	51021
Adult	51022

Auditory and Visual Stimulation Accessories

Auditory Bone Conduction Transducer

Ideal for use with peripheral hearing loss and/or head trauma patients. 2m lead attached. An adaptor is required for use with Synergy N&T and Synergy Mobile and Portable Instruments. Adaptor for use with Auditory Bone Transducer.

Type	Part Number
Auditory Bone Transducer	017C080



Headphone Extension Cable

PVC coated shielded cable terminating in 5-pin DIN 180° connecting plug and socket. Requires adaptor cable Part # 003D024 for use with Sapphire and Premiere.

Type	Length	Part Number
Headphone Extension Cable	3m	54460
Headphone Extension Cable	10m	54461

Note: All headphones and earphones require adaptor cable Part # 003D024 for use with Sapphire and Premiere. When ordering, specify instrument.

Visual Stimulation Accessories

LED Goggles

This system provides a diffuse flash stimulus source for evoked potentials applications. Due to its small size it is ideal for application in IOM and intensive care. Monocular or binocular stimulation can be selected. Goggles are fully adjustable.

Type	Part Number
Synergy N & T	031D043



VEP Monitor Extension Cable

Type	Length	Part Number
Extension Cable	3m	040S006

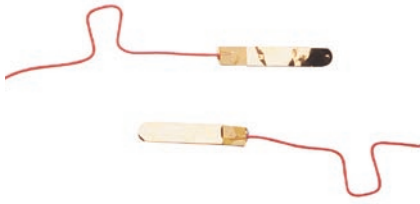
DET Electrode for ERG

Disposable silver impregnated spun nylon thread.

Type	Part Number
50 micron diameter, 2.5m long	54219
Micrograbber (See page 24)	085-416800



Visual Stimulation Accessories and Recording Electrodes for EPs



ERG Gold Foil Electrode

Thin (8 micron) gold foil mounted on mylar, 4mm x 21mm. Foil is placed in the lower fornix, on the mid-line at the interior corneo-scleral junction and taped to patient's cheek. 1.0mTeflon®-insulated lead. Electrode can be gas sterilized. 1 per pack.

Type	Lead Length	Qty	Part Number
Gold Foil	1.0m	1/pkg	019-416200



Disposable ERG Jet Contact Lens Electrode

Each clear polycarbonate 65mm lens features a concentric gold electrode near its perimeter on the concave surface; recommended for clinical use. 12 per pack.

Type	Lead Length	Qty	Part Number
Contact Lens	65mm	12/pkg	842-216700



Recording Electrodes for EPs

Stainless Steel Disc Electrodes

10mm stainless steel discs, 1 pair with red and black PVC coated, 76cm leads terminating in touchproof plugs.

Type	Part Number
Twisted Leads, Touchproof	6030-TP
Separate Leads, Touchproof	6030-3-TP



Disposable Subdermal Needles for EEG/EPs

- Stainless steel needle, ground to a consistently sharp point for maximum patient comfort
- Short lead (6cm with 1mm plug) attached for easy connection and disconnection to reusable interconnection cable
- Lightweight, flexible interconnection cable for ease of use
- Supplied sterile (ETO) to maximise safety
- For single use only

The needles are used with a reusable lead cable with a 1mm connector to the electrode end, 1m long and 1 per pack.

Type	Length	Diameter	Qty	Part Number
Disposable Subdermal Needles	18mm	0.30mm	5/pkg	017K019
Disposable Subdermal Needles	12mm	0.30mm	5/pkg	017K025

25 needles per box.



Reusable Lead Cable

For short subdermal needles with a 1mm connector to the electrode end. 1m long lead. 1 per pack.

Type	Lead Length	Qty	Part Number
Reusable Lead Cable	1m	1/pkg	017C022

Shielded Subdermal Needle Cable

Reusable 2.0m Kevlar® shielded cable for use with short lead subdermal needles. This cable will fit any 5-pin DIN connector. The cable is reinforced with Kevlar®. 1 per pack.

Type	Lead Length	Qty	Part Number
Subdermal Cable	2.0m	1/pkg	085-448600



Electrodes and Accessories



Reusable "Tangle Free" 10mm EEG Cup Electrodes

Reusable tangle free range of EEG Cup electrodes with 10mm cup diameter. Cups available in gold, silver and silver/silver chloride and 3 leads lengths. 12 colour-coded (2 x green, blue, yellow, grey, pink and purple) electrodes per pack.

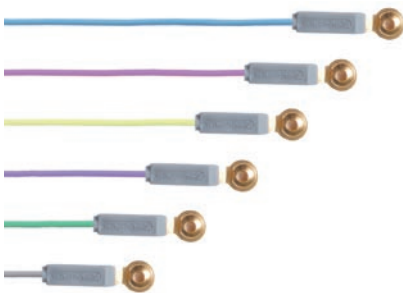
Type	Lead Length	Qty	Part Number
Gold	1.0m	12/pkg	019-414400
Gold	1.5m	12/pkg	019-413900
Gold	2.5m	12/pkg	019-433800
Silver	1.0m	12/pkg	019-414600
Silver	1.5m	12/pkg	019-414100
Ag/AgCl	1.0m	12/pkg	019-417600
Ag/AgCl	1.5m	12/pkg	019-417700



Reusable Light wire 10mm EEG Cup Electrodes

Reusable light wire EEG cup electrodes with 10mm cup diameter. Gold and silver cup versions available with 3 lead lengths. 10 colour-coded (grey, white, yellow, purple, orange, green, blue, red, brown and black) electrodes per pack.

Type	Lead Length	Qty	Part Number
Gold	1.0m	10/pkg	019-419400
Gold	1.5m	10/pkg	019-419500
Gold	2.5m	10/pkg	019-419600
Silver	1.0m	10/pkg	019-419700
Silver	1.5m	10/pkg	019-419800
Silver	2.5m	10/pkg	019-419900



Reusable "Tangle Free" Paediatric 6mm EEG Cup Electrodes

Reusable tangle free range of EEG Cup electrodes with 6mm cup diameter. Gold and silver cups available with 3 lead lengths. 12 colour-coded (2 x green, blue, yellow, grey, pink and purple) electrodes per pack.

Type	Lead Length	Qty	Part Number
Gold	1.0m	12/pkg	019-772500
Gold	1.5m	12/pkg	019-772600
Silver	1.0m	12/pkg	019-772100
Silver	1.5m	12/pkg	019-772200

Electrodes and Accessories

Silver/Silver Chloride Disc Recording Electrodes

- Fully autoclavable
- 1 metre anti-tangle, flexible, silicone leads in 6 different colours
- 9mm or 6mm size discs available
- Cast discs for added durability
- Double protective seal at electrode end
- Fine silver (99.9% pure) gives lowest possible artefact
- 2 metre length version available

Type	Part Number
1 pair (1 red, 1 black) 9mm disc recording electrodes with 1 metre leads	19329T
1 pair (1 red, 1 black) 6mm disc recording electrodes with 1 metre leads	53524T



Disposable EEG Cup Electrodes

The 10mm cups have a 2mm centre hole and the recording surface is silver/silver chloride. Packaged 10 electrodes per pack, lead wires are uniquely colour-coded (yellow, orange, red, gray, blue, green, brown, black, white and purple). Available in 2 lead lengths 1m or 1.5m lengths. Ideal for use with open wounds, head trauma and IOM cases.

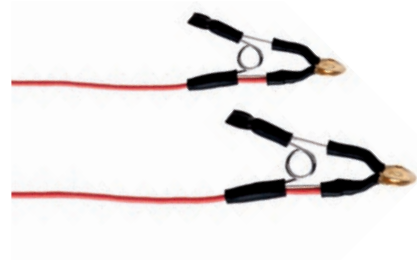
Type	Lead Length	Qty	Part Number
Disposable Cups	1.0m	10/pkg	019-434400
Disposable Cups	1.5m	10/pkg	019-434500



Ear Clip Electrodes

Pair of cup electrodes conveniently mounted on an ear clip. Standard 1.0m lead. Each package contains a pair of electrodes, one red and one blue lead. Available in gold, silver and silver/silver chloride electrodes.

Type	Size	Qty	Part Number
Silver	6mm	1 pair/pkg	019-405000
Silver	10mm	1 pair/pkg	019-405100
Gold	6mm	1 pair/pkg	019-405200
Gold	10mm	1 pair/pkg	019-405300
Ag/AgCl	6mm	1 pair/pkg	019-405400
Ag/AgCl	10mm	1 pair/pkg	019-405500



EEG Ball/Pedicle Screw Electrode

Plated with either gold, silver or silver/silver chloride. Ideal for Nasopharyngeal recordings. For full description, see page 19.

Type	Shank	Lead Length	Qty	Part Number
Gold	100mm	1.0	1/pkg	019-404800
Gold	150mm	1.0	1/pkg	019-404900
Silver	150mm	1.0	1/pkg	019-416500
Ag/AgCL	150mm	1.0	1/pkg	019-416700



Electrode & Cable Holder

Our rugged, steel electrode and cable holder is an excellent addition to any lab or testing facility. The 11" (27cm) rack has ten tines with .45" (1.1cm) spacing for hanging electrodes and/or nine slots for cables. 4 holes for easy mounting.

Type	Qty	Part Number
Electrode Holder	1/pkg	016-400700



Electrodes and Accessories



Piezo Crystal Trace Respiration Bands

Reusable respiration bands that are compatible with all EEG polygraphic systems, connecting directly to the head box with touchproof adaptors. Each respiration band kit includes one Piezo Sensor Strap and three stretch Velcro® bands. Adult bands extend from: 28-38" (70-96cm), 35-52" (88-132cm) and 50-80" (127-203cm) in circumference.

Paediatric bands extend from 17-21" (43-53cm), 19-25" (48-63cm) and 23-30" (58-76cm) in circumference.

Type	Qty	Part Number
Adult Respiration Bands	1 kit/pkg	019-402100
Ped. Respiration Bands	1 kit/pkg	019-402000
Replacement Sensor Strap	1/pkg	019-401900
Replacement Strap – Adult	1/pkg	019-416900
Replacement Strap – Ped.	1/pkg	019-416800



Single Airflow Thermocouple

General thermocouple single sensor tip located at the end of 2.1m (7') lead with touchproof connectors.

Type	Qty	Part Number
Thermocouple	1/pkg	019-402600



Respiratory Airflow Thermocouples

Specially designed for PSG applications, respiratory airflow thermocouples use a small and lightweight cannula with 7', (2.1m) flexible lightweight leads terminating in touchproof connectors. 1-channel thermocouples record airflow onto a single nasal/oral recording channel. 2-channel thermocouples record airflows onto separate nasal/oral recording channels.

Type	Qty	Part Number
1-Channel – Paediatric	1 kit/pkg	019-402200
1-Channel – Adult	1 kit/pkg	019-402300
2-Channel – Paediatric	1 kit/pkg	019-402400
2-Channel – Adult	1 kit/pkg	019-402500

Electrodes and Accessories

Reusable Snoring Sensor™

Reusable Snoring Sensor™ attaches to the neck and records snoring vibrations. The patent-pending Piezo-electric sensor relies on vibration rather than sound, eliminating background noise artifact. The sensor is 18mm in diameter and 3mm thick with a frequency range of 70 to 120 Hz on the high end and a low frequency setting of 10 Hz. 180cm (70") lead length, terminates in 2 touchproof connectors.

Type	Qty	Part Number
Snoring Sensor™	1/pkg	019-414900



Reusable Snoring Microphone

Reusable Snoring Microphone attaches to the neck and records the sounds associated with snoring behaviour. No battery or interface is needed. Plug the 2 touchproof connectors into an AC channel on your system headbox. The 1.5cm diameter microphone is 1.0cm thick and has a frequency range of 0.1 Hz to 75 Hz. 185cm (72") lead length terminating in 2 touchproof connectors.

Type	Qty	Part Number
Snoring Microphone	1/pkg	019-414800



Disposable Respiration Thermocouple

Functionally identical to reusable thermocouple. Designed for single use. 1.5 metre cable terminating in touchproof plugs. Requires Connection Jumpers (Part # 6035-TP) connected to ground when used with Medelec DG series.

Type	Qty	Part Number
Disposable Respiration Thermocouple	10/pkg	54517T



Electrodes and Accessories



Disposable Centre Snap Square Electrode

Disposable solid gel 2.5cm x 2.5cm (1" x 1") cloth-backed electrodes with aggressive adhesive that makes it ideal for extended recording sessions. This solid-gel electrode is easy to use and requires no cleanup. Single patient use only. Ideal for PSG studies. 15 electrodes per pack.

Type	Qty	Part Number
Square Snap	15/pkg	019-427000



DC Body Position Sensor

Interfaces and calibrates to the UltraSom™ system.

Type	Qty	Part Number
DC Sensor	1/pkg	019-417400



AC Body Position Sensor

Sensor records five body positions. Connects to the electrode headbox via two DIN touchproof connectors.

Type	Qty	Part Number
AC Sensor	1/pkg	019-406500



Pulse Oximeter

This Datex-Ohmeda 3900 Pulse Oximeter is the portable, lightweight solution. Its ease of use and versatility make it an ideal oximeter for a wide range of clinical applications wherever monitoring of oxygenation is critical. Sensors not included.

Type	Qty	Part Number
Pulse Oximeter	1/pkg	080-400000



Pulse Oximeter Connector Cable

5' (3.5mm to 3.5mm) phono plug to phono plug cable. For interface to Nicolet digital amplifier.

Type	Qty	Part Number
Phono Plug Cable	1/pkg	085-745000



TrueFit OxyTip® Sensor

This sensor's unique retaping system allows you to reuse it multiple times on the same patient. Designed to fit a wide range of patient sizes, the TrueFit sensor is also ideal for long-term monitoring. Recommended weight range: 44lbs (20kg).

Type	Qty	Part Number
TrueFit Sensor	10/pkg	019-418000

Electrodes and Accessories

AllFit OxyTip® Sensor

For adult, infant, toddler and paediatric use >6.6lbs (3.0kg). For medium to long term monitoring. Requires OxyLead® interconnect cable.

Type	Qty	Part Number
AllFit Sensor	10/pkg	019-431800



Reusable "Tangle Free" Paediatric 10mm EEG Cup Electrodes

Reusable tangle free range of EEG Cup electrodes with 10mm cup diameter. Cups available in gold, silver and silver/silver chloride and 3 leads lengths. 12 colour-coded (2 x green, blue, yellow, grey, pink and purple) electrodes per pack.

Type	Lead Length	Qty	Part Number
Gold	1.0m	12/pkg	019-414400
Gold	1.5m	12/pkg	019-413900
Gold	2.5m	12/pkg	019-433800
Silver	1.0m	12/pkg	019-414600
Silver	1.5m	12/pkg	019-414100
Ag/AgCl	1.0m	12/pkg	019-417600
Ag/AgCl	1.5m	12/pkg	019-417700



Reusable Extension Cable – Twisted

Reusable 1.0m red and black twisted lead touchproof extension cable is perfect for recording and reference electrode pairs that require a little extra length.

Type	Lead Length	Qty	Part Number
Extension Cable	1.0m	1/pkg	019-408400
Extension Cable	2.0m	1/pkg	019-432200



Reusable Extension Cables – 6 pack

Reusable touchproof extension cables. Available in 2 lead lengths and 6 colours (green, blue, yellow, pink, purple and gray). Ideal for use when longer electrode cables are needed during PSG studies. 6 per pack. High-quality adaptors for PIN and DIN equipment. Female to male adaptor should be fixed in headbox and remain there permanently to allow use of DIN electrodes in older system headboxes.

Type	Lead Length	Qty	Part Number
Extension Cables	1.0m	6/pkg	019-431500
Extension Cables	2.0m	6/pkg	019-401100



Electrodes and Accessories



Reusable Tubal Insert Phones (TIPs)

For auditory studies including evoked potentials, audiometry, and intra-operative monitoring. The use of Nicolet TIPs maximizes interaural stimulus isolation, prevents ear canal collapse, and reduces stimulus artifact. TIPs are easy-to-use, lightweight, durable and comfortable for the patient. Included with the TIPs are: 3 red and 3 blue silicone tubes, fifty 13mm disposable foam eartips, a 16' cable, User's Guide, and impedance tip adaptors.

Type	Qty	Part Number
TIP 300	1 kit/pkg	041-704000
Replacement Cable	1/pkg	085-746400



Disposable Polyurethane Foam Ear Tips

For use with Nicolet Tubal Insert Phones, and all Nicolet Evoked Potential Systems. Single use only.

Type	Qty	Part Number
13mm, yellow	50/pkg	1700-9604
10mm, beige	50/pkg	1700-9605



Replacement Red/Blue Silicone Tubes

Three red and three blue tubes per pack and three pairs of additional replacement connectors.

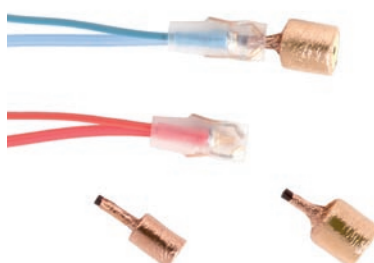
Type	Qty	Part Number
Red/Blue Tubes	3 each colour/pkg	1700-9688



Replacement Clear Silicone Tubes

Replacement Silicone Tubes are now available in clear. Three pairs, with six replacement connectors. See above for red/blue tubes.

Type	Qty	Part Number
Clear Tubes	6/pkg	019-411200



Gold TIPtrodes/Reusable TIPtrode Cable

For use with Nicolet's Tubal Insert Phones and all Nicolet Evoked Potential Systems except for Audit V. The gold foil-wrapped polyurethane-foam eartip electrodes offer both sound delivery and recording functions in one unit. It also enhances Wave I amplitude but may be used for ABR and all other auditory evoked potential recording/testing as well. TIPtrodes are for single use only. Use of TIPtrodes requires one pair of TIPtrode cables.

Type	Qty	Part Number
10mm TIPtrode	20/pkg	019-746802
13mm TIPtrode	20/pkg	019-741901
250mm TIPtrode Cable	1pair/pkg	085-415000

Replacement Ear Tips

Soft ear tips made of PVC plastic, for use with the Impedance Tip Adaptor Kit.

Type	Qty	Part Number
3.5mm Tips	10/pkg	842-507300
4.0mm Tips	10/pkg	842-507400
5.0mm Tips	10/pkg	842-507500



Universal Infant Ear Tips

Though we designed these Universal Infant Ear Tips for the GSI AUDIOScreener™, they will perform well in many paediatric auditory applications. The diameters of each successive segment are 3.5mm, 4mm, and 5mm.

Type	Qty	Part Number
3.5mm-5mm Tips	10/pkg	2002-9660



300 OHM Bone Vibrator Transducer

Bone vibrator may be used to determine conductive hearing loss or indicate the presence of middle ear pathology. Comes with a 15' lead. Not available for Synergy

Type	Qty	Part Number
Bone Vibrator Transducer	1/pkg	842-202600



300 OHM Headphones

For use with any 300 ohm output stimulator. Headphones feature a 15 ft. lead length, and are available with and without acoustic shielding.

Type	Qty	Part Number
TDH 39 - Unshielded	1/pkg	842-202700
TDH 39 - Shielded	1/pkg	842-202300



Comfort Cups

When performing newborn hearing screening, these foam cups consist of one adhesive side that gently affixes to the area around an infant's ear, and one side capped by plexiglas. They work with the GSI AUDIOScreener™, as well as the Natus Algo 1®, Natus Algo 2®, Bio-Logic's Abaer™ and Bio-Logic's AuDx®.

Type	Qty	Part Number
Comfort Cup	25/pkg	2002-9645



Gels, Pastes & Skin Prep Accessories



Electrolyte Gel

Easy-to-use 8.4oz (250ml) squeezable tube. Sodium chloride-free. Water soluble, non-staining and non-irritating to sensitive skin. Safe to use with children. Recommended for use with EMG surface, stimulating and ground electrodes. Ideal for collodion applied electrodes. 1 per pack.

Type	Qty	Part Number
Electrolyte Gel	1/pkg	016-701200



3M Coban®, Surgical and Transpore® Tapes

Coban® Tape: 3M self-adherent wrap

Micropore® Tape: 3M surgical tape, hypoallergenic

Transpore® Tape: 3M surgical tape

Type	Width	Length	Qty	Part Number
Coban® Tape	3"	15'	1/pkg	123-402000
Surgical Tape	1"	30'	1/pkg	123-723900
Transpore®*	1"	30'	12/pkg	019-417500

*12-count Transpore® Tape comes with CE mark on box.



Synapse Conductive Electrode Cream

Contains non-abrasive electrolytes, buffered to skin pH. 5oz bottle. Product features include: convenient application, non-staining to skin or clothing, rapid and easy clean-up.

Type	Qty	Part Number
Synapse	1/pkg	016-703800



Gauze Pads

Sterile gauze sponges are 3" x 3". 12 ply pads packaged, 2 per pouch.

Type	Qty	Part Number
Gauze Pads	50/box	016-400800



One-Step Skin Prep

Quick and easy. This abrasive tape works just like gel preps without the mess. It is adhesive on one side and abrasive on the other. Tear off one inch and gently abrade each electrode site with one quick stroke of the pad. 196" total length.

Type	Qty	Part Number
One-Step Skin Prep	1/pkg	016-400000

Gels, Pastes & Skin Prep Accessories

Electrode Prep Pads and Alcohol Pads

Both pads are saturated with 70% isopropyl alcohol. The Prep Pads are formulated with pumice (100 per pack). Use to cleanse the electrode site and lower impedance in preparation for electrode placement. Alcohol pads 200 per pack.

Type	Qty	Part Number
Electrode Prep Pads	100/pkg	016-703200
Alcohol Pads	200/pkg	016-703000



Ten20™ Conductive Paste

Ten20™ conductive paste is an odourless, white, opaque water-soluble adhesive paste designed to be used with EEG cup electrodes.

Type	Qty	Part Number
Ten20™ 4oz jar	1/pkg	016-703600
Ten20™ 8oz jar	1/pkg	016-703700
Ten20™ 4oz tube	1/pkg	122-736000



NuPrep™ Skin Prep

NuPrep™ gel is useful whenever a reduction of skin impedance would enhance a test result. Convenient 4oz tube.

Type	Qty	Part Number
NuPrep™	1/pkg	122-736100



SIGNAGEL®

A highly conductive, multi-purpose electrolyte gel, SIGNAGEL® is ideal for biofeedback, EP and EMG studies. It is a water soluble, non-staining, saline electrode gel that is hypoallergenic and bacteriostatic. The non-gritty gel is provided in a transparent 2oz (60g) tube.

Type	Qty	Part Number
SIGNAGEL® 2oz Tube	1/pkg	016-401700



Gels, Pastes & Skin Prep Accessories



SPECTRA 360®

This salt and chloride-free conductive gel is particularly suited for long-term applications such as IOM as well as routine NCV and EMG studies. SPECTRA 360® is hypoallergenic, bacteriostatic and is available in either a 2oz (60g) or 8.5oz (250g) tube.

Type	Qty	Part Number
SPECTRA 360® 2oz Tube	1/pkg	016-401500
SPECTRA 360® 8.5oz Tube	1/pkg	016-401800



TENSIVE® Adhesive Gel

A non-flammable, odourless, conductive adhesive gel, TENSIVE® may be used in EEG/EP applications or for other electro-diagnostic procedures where easy clean up is required. TENSIVE® is hypoallergenic, bacteriostatic, water-soluble and is available in a convenient 50g tube.

Type	Qty	Part Number
TENSIVE® Gel 1.65oz Tube	1/pkg	016-401600



LemonPrep

A preparatory paste with a lemon scent, LemonPrep is an effective way to help prepare the skin for EEG, EP, and ECG tests. It has a pH balanced formula designed to minimise impedance at the electrode contact area – and aloe vera to condition your patients' skin.

Type	Qty	Part Number
LemonPrep	1/pkg	016-401000

Sharps Heavy-Duty Polypropylene Containers

Rigid, high-impact polypropylene sharps container. Meets DC, EPA and JCAH guidelines. Not wall mountable. Available in 2 sizes.

Type	Qty	Part Number
2-quart Container	1/pkg	122-739100



Mini-Temp Hearts and Flexible Surface Temperature Probe

Mini-Temp Hearts heat-reflecting shields are used with flexible surface temperature probe on adults and children. The Temperature Probe consists of a small stainless steel sensor disc attached to flexible Teflon™ wire. 48" cable with 4mm PIN connector. Use with Nicolet's Viking™ Series, Spirit™ and Bravo™ systems. (Not available for PortaBook™, Compass Meridian or Synergy)

Type	Qty	Part Number
Flexible Temp Probe	1/pkg	268-411800
Mini-Temp Hearts	100/pkg	123-401600



Disposable Temperature Electrode

For skin temperature calibration when a calibrated system input is not available. Adhesive backing for easy application. 75mm x 13mm. Temperature range: 84°-106°F/29°-41°C.

Type	Qty	Part Number
Temperature Electrodes	50/pkg	019-406000



Reusable Temp Probe with Ferrite

For use with Synergy range of EMG/EP instruments. The Temp Probe plugs directly into the preamplifier/patient interface unit.

Type	Qty	Part Number
Temperature Probe	1/pkg	040D040



Tape Measure

Retractable, vinyl coated, fiberglass tape measure. Wipes clean and is constructed for virtually no tape stretching.

Length	Part Number
60" (1.5m), with 1" extra leader	936-8020





Adaptors And Retrofitting Kits

Viking™ Select Accessory Tray

6" x 4.5" (15.24cm x 11.43cm) durable aluminium tray can be mounted to either side of your Viking™ Select Amplifier at almost any height. Ideal place to keep small items. 1 per pack.

Type	Qty	Part Number
Accessory Tray	1/pkg	842-661800



EMG Needle Holder

This effective safety device can be clamped onto either side of any EMG machine or amplifier (7cm x 2.5cm). Ideal for managing needle electrodes and other dangerous sharps. 1 per pack.

Type	Qty	Part Number
EMG Needle Holder	1/pkg	842-122600

Adaptors and Retrofitting Kits

Reusable Linked Electrode Adaptor

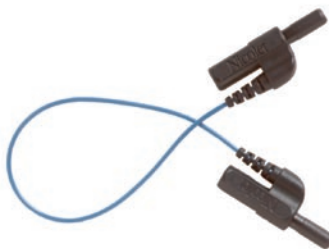
The linked electrode adaptor is a handy tool when using linked electrodes as a reference. Two receptor DIN 42 802 connectors are joined to one standard DIN 42 802 electrode input connector.



Type	Lead Length	Qty	Part Number
Electrode Adaptor	4"	1/pkg	019-420100

Reusable Electrode Linkers/Jumpers

Used to combine two electrodes to one connector on a headbox or one electrode to two headbox ports. The Jumper Cable is 15cm end-to-end, with male and female DIN 42 802 connectors at each end.



Type	Lead Length	Qty	Part Number
Electrode Jumper	15cm	1/pkg	019-401000

Electrode Connection Jumper

Electrode connection Jumpers are used for common referencing electrodes in multi-channel work.



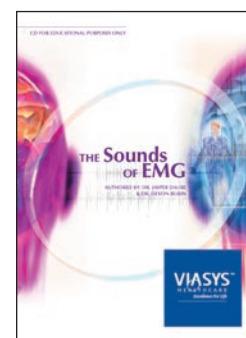
Type	Length	Part Number
Set of 3, with touchproof plug and socket	4" (10cm)	6035-TP

EMG Training, The Sounds of EMG – CD ROM

Our ears and brain are designed to analyse complex signals - signals that cannot be analysed by our visual system or even by a computer. Learning the 'art' of EMG auditory recognition is a crucial component of clinical electromyography.

When two discharges differ in appearance from another, the sound allows easier categorization and recognition. Auditory recognition of a discharge allows you to correctly identify and classify it.

This CD-ROM provides both the visual and sound representation of over 250 electrical waveforms recorded during clinical electromyography to assist you in learning to recognize EMG activity. Not intended for diagnostic purposes.



Type	Qty	Part Number
The Sounds of EMG	1/pkg	222-458301

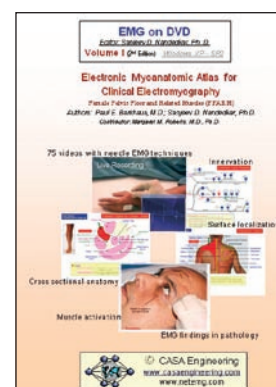
Electronic Myoanatomic Atlas for Clinical Electromyography – DVD

Volume I (Second Edition)

In clinical Electromyography (EMG), training in localising muscles for needle electrode insertion has been primarily accomplished by referring to anatomy atlases and by observing experienced examiners. Books offer two dimensional static pictures. Learning from experts at meetings and courses can be expensive with limited opportunity to learn. Thanks to the multimedia technology and DVDs, you can now have the expert available to you at any time and for a fraction of the cost. In this DVD, you will watch, observe, listen and learn from Dr. Barkhaus as he demonstrates the techniques for muscle localisation and activation for needle EMG examination.

This DVD includes:

- 70 digital video clips of the commonly tested muscles with needle EMG techniques
- 300+ still images with anatomical landmarks
- Female pelvic floor EMG studies
- Surface localisation
- Cross-sectional anatomy
- Anatomic data such as roots, innervation etc.
- Live recordings
- EMG findings in pathology
- Muscle activation
- 100+ page book, with practical input, ready to be printed
- Use it on a Multimedia Windows® XP-SP2 PC
- Ideal teaching tool for academic centres
- Great reference material for practicing EMGers
- DVD media offers instantaneous access to the requested muscle data

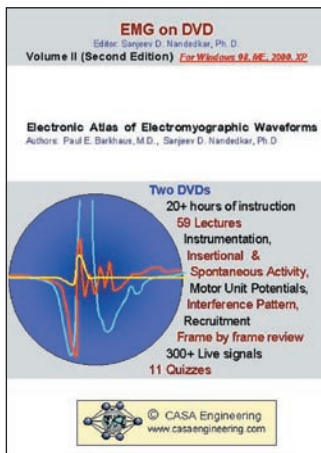


Second Edition by Paul E. Barkhaus, M.D. and Sanjeev D. Nandedkar, Ph.D.

EMG on DVD Series Editor: Sanjeev D. Nandedkar, Ph.D.

Item	Part Number
Volume 1 (Second Edition)	017W082

Electronic Atlas of Electromyographic Waveforms – CD ROM or DVD



Volume 2 (Second Edition)

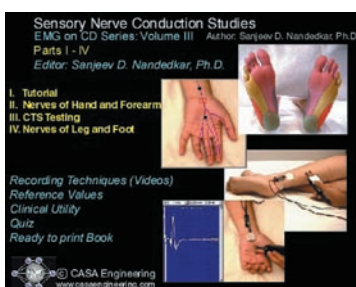
Look listen and learn as the authors present over 20 hours of instruction. The new version Volume 2 is now available in 9 CD-ROMs or 2 DVD-ROMs. They contains 4 sections: (1) Instrumentation, (2) Insertional & Spontaneous Activity, (3) Motor Unit Action Potential Analysis and (4) Interference Pattern/Recruitment. Each topic begins with a detailed lecture that describes physiology, pathology, waveform recognition & characterization, methods for capturing the potential, interpretation, and reporting. The methods include those used in the routine EMG examination, as well as sophisticated quantitative analysis.

In the workshops, you will see the authors demonstrate the techniques using signals recorded in normal subjects, and in patients with a variety of neuromuscular diseases. The electronic technology will give you the feeling as if you are in a real laboratory with a real patient studied with a real instrument as the authors systematically teach EMG signal analysis. Finally, you will be able to take quizzes that simulate “Board Examinations.” Hints are provided to guide the student to arrive at the correct answer.

Compatibility with Windows® 98/ME/2000/XP/Vista

- 20+ hours of instruction
- 59 lectures
- Analysis of 227 signals in workshops
- 11 quizzes with 152 questions
- 300+ recordings for assessment
- ‘Frame by frame’ review, as if examining signals on a real electromyograph
- You can insert the videos in your PowerPoint presentations
- Instant access to requested data

Item	Part Number
Volume 2 (9 CD-ROMs)	017W076
Volume 2 (2 DVD-ROMs)	017W077



Sensory Nerve Conduction Studies - CD ROM

Volume 3

The sensory conduction studies are considered somewhat difficult due to the small amplitude of the signal recorded from these nerves. The problem may be compounded by a poor technique. The goal of this tutorial is to teach a good technique to give reliable and reproducible results. The emphasis is on electrode placement, improving signal quality and minimizing technical artifacts. This will give the clinician/technologist more confidence in assessment of the sensory nerve conduction studies.

- High quality large videos showing stimulation/recording techniques with simultaneous display of a patient and a recording signal
- Observe the technique as if participating in a real workshop
- Median, Ulnar, Radial, Ulnar-Dorsal, Antebrachial Cutaneous
- Sural, Superficial Peroneal, Saphenous, Plantar
- Reference Values
- Clinical Utility
- Pitfalls
- Quiz
- Electronic textbook

Will run on Windows® 95, 98, ME and XP.

Item	Part Number
Volume 3	CD-SNT&P

Why You Should Attend

Are you a new customer of Cardinal Health? Perhaps you're familiar with your instrument, through years of experience, but need updating on the latest software features. Maybe the original system operator received formal training and subsequently trained others, resulting in a dilution of skills. Perhaps you've added a system upgrade and would like to develop new easy-to-follow methods, through the use of automated procedures. Or maybe you're interested in performing new applications on your instrument, but you aren't sure how to start.

If you fit any of these profiles, Cardinal Health offers a course designed especially for you. You'll have an opportunity to develop the skills you need to do your job effectively and productively and maximize the value of your Cardinal Health instrument. We also understand that your service requirements are unique. Therefore, service courses are offered for your engineering personnel.

The Cardinal Health Faculty

Cardinal Health instructors come from both academic and technical backgrounds. They are experts in applications, instruction methods, and the use of Cardinal Health equipment. The faculty has used Cardinal Health instruments in real-world settings, solving practical problems. They provide focused instruction, geared to individual levels of expertise. Whenever possible, class agendas provide time for close interaction between you and the instructor, to address questions related to your particular applications.

Class Overview

Cardinal Health instructors will explain the principles behind your instrument and how to get the most out of it. Extensive hands-on labs and practicum allow you to apply lecture material. You'll share your experience with other students and learn from their backgrounds and insight. In addition, your instructor can answer questions related to your particular requirements and applications. It's an opportunity to escape your day-to-day pressures and interruptions; allowing you to focus on an enjoyable, rewarding, learning experience.

Continuing Education Units and Continuing Medical Education

Cardinal Health meets the Criteria for Certification established by the Authorized Provider Commission of the International Association for Continuing Education and Training, 16201 I Street NW, Suite 615, Washington DC 20006. The International Association for Continuing Education and Training (IACET) is the caretaker of the Continuing Educational Units (CEUs). IACET assumes responsibility for refining and disseminating information about CEUs. Through its programs, publications, research and technical assistance, the Association assists organizations in correctly using the CEU criteria.

CEUs are nationally recognized, standard units of measurement earned for satisfactory completion of qualified programs of continuing education. Students are awarded one CEU for every ten program hours in conformance with the guidelines developed by IACET.

Cardinal Health recognizes the need for corporations to provide career-enhancing opportunities for their customers, as well as to ensure that the quality of their customers' training is the finest in the industry. These reasons have been the motivation behind Cardinal Health investment in this esteemed accreditation. Courses approved for CEUs are denoted by the IACET logo, and the number of CEU credits that are awarded.

Continuing Medical Education (CME) credits will be granted to each attendee who successfully completes a vascular course. These 'Category A' CME credits are sponsored by the Society of Vascular Ultrasound. They are the official ongoing medical education credits required for the Registered Vascular Technology re-accreditation credential for the American Registered Diagnostic Medical Sonographers (ARDMS), the American Registry of Radiologic Technologist (ARRT) and the Intersocietal Commission for the Accreditation of Vascular Laboratories (ICAVL) for accreditation. 19 CME credits will be issued upon successful completion of the Introduction to TCD Ultrasound course. 16 CME credits will be issued upon successful completion of the Introduction to Peripheral Vascular Testing and Instrumentation course.

Course Prerequisites

Prerequisites listed in the course description outline the knowledge or background a student should have in order to receive maximum benefit from the course. Prerequisites may be met by any combination of training and experience. While students who do not meet prerequisites may be admitted, they will find the material extremely challenging and rapidly paced. If you are unsure whether you meet course prerequisites, please contact the Training Manager and ask to speak with the instructor.

Basic computer skills are necessary for all courses. This entails basic skills such as: using a mouse (right click/left click, click and drag); basic typing skills (knowing the layout of a keyboard); knowledge of Microsoft Word (file open/close/edit, save/save as, delete).

Training Schedule

The current training schedule, for Cardinal Health operation and maintenance courses, is posted on Cardinal Health web site www.cardinalhealth.com/viasys.

Training Packages

There are two options for training packages. The first is tuition-only. This option covers the cost of tuition, course materials, and lunch each day. The second is comprehensive. This option includes tuition, course materials, all meals, and hotel.

Course Locations

Courses are held at a variety of locations throughout the U.S. To find a location of the courses, please log on to the website www.cardinalhealth.com/viasys or contact the Training Manager at madison.training@cardinalhealth.com.

Classes start at 9:00 a.m. and conclude at 4:30 p.m. daily. Most classes dismiss at 3:00 on the last day. Start and end times will be provided by the Training Manager upon registration.

Lodging Arrangements

Training in Madison, WI takes place at the Quality Inn & Suites, 2969 Cahill Main, Madison, WI 53711. Phone: 608-274-7200. Fax: 608-274-7720. To view this hotel online please go to www.qualitysuitsmadison.com. Customers may contact the hotel directly to make reservations. The hotel offers free transportation to and from the airport. Providing the hotel staff with your flight number, airline, and arrival time will allow the hotel to pick you up. This eliminates the need for a rental car.

Registration Information

To register for a course, please complete the Cardinal Health registration form located on the website. For current pricing, contact Cardinal Health Training Manager at +608-273-5000, option 8 or send an e-mail to madison.training@cardinalhealth.com. When calling, please specify the course you are interested in attending.

Cardinal Health reserves the right to cancel a course due to the lack of minimum enrollment. Three to four weeks prior to the class, a confirmation letter will be faxed to you, confirming that the class will be held. The letter will give you information about making flight and hotel reservations. Do not make reservations prior to receiving your confirmation letter.

Payment

If training was purchased with your Cardinal Health equipment, please provide the Cardinal Health order number on your registration form. If you are purchasing a training package directly from Cardinal Health, you will need to provide a purchase order or credit card number. You will receive an invoice for course fees after you register.

Cancellation or Substitution

Please contact Cardinal Health as soon as you know you must cancel your enrollment. Cancellations received up to two weeks (10 working business days) before the course starts are fully refundable. Cancellations received after this time are non-refundable. Student substitutions are accepted up to two weeks (10 working business days) before the course starts. The substitute should meet all course prerequisites.

Upon Completion

You'll leave Cardinal Health training with new ideas and knowledge that you can put to use immediately. You'll be exposed to the finer points of your instrument and how to apply them in new situations. Our goal is to help you gain more confidence in obtaining and interpreting results. The concepts, tools, and techniques you will learn can make it easier to use your Cardinal Health instrument to its fullest capabilities. Your increased understanding of Cardinal Health instruments will make you more productive and effective in your job.

Customized Workflow Training Onsite

Because each facility has a different workflow pattern, general instructional classes for system operation may not be enough. If you have a large group of people that require training or you prefer to have the training customized to your business needs, you may prefer to hold classes at your facility. Cardinal Health offers Customized Workflow Training at your location. Cardinal Health Training Consultants are experienced in the neurology disciplines and have extensive experience with the instruments. These skilled individuals will come to your facility, teach system operation, and customize the training course to show how the instrument can be used efficiently for your facility's workflow.

Cardinal Health will provide all standard class material and will train using your instruments. You will need to provide a suitable training facility, appropriate supplies, and audiovisual equipment, if required. Please contact Cardinal Health Training Manager for additional information on classes at your facility.

Ordering Information

How to Order

Cardinal Health has offices in U.S., Germany, Italy, Spain, The Netherlands and the United Kingdom. For sales, service or support, please contact your local office.

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To complement these direct subsidiaries, Cardinal Health maintains a network of representative organizations in countries throughout the world. Contact any one of the offices above for the Cardinal Health representative in your country.

Prices

Due to market fluctuations, our prices are subject to change.

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In no event shall Cardinal Health be liable for any incidental or consequential damages resulting from the use of the product or caused by any defect, failure, or malfunction of the product, whether a claim for such damage is based upon the warranty, contract, negligence, or otherwise.

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This warranty is in lieu of all other warranties, expressed or implied, whether statutory or otherwise, including any implied warranty or fitness for a particular purpose.

Caution

Federal law in the USA and Canada restricts the sale, distribution or use of these products to, by, or on the order of a licensed medical practitioner.

Caution

Proper use of these products depends on careful reading of all instructions and labeling.

Warning

When using electrodes with 2mm PIN connectors, prevent potential injury to your patient by taking the following precautions:

- Check all cable connections for proper hookup.
- Switch on the monitor to verify it is connected correctly.
- Check that the patient electrode(s) is connected to the correct amplifier input jack.
- Disconnect all unused power cables from the AC power supply and remove them from the location of the monitoring device.

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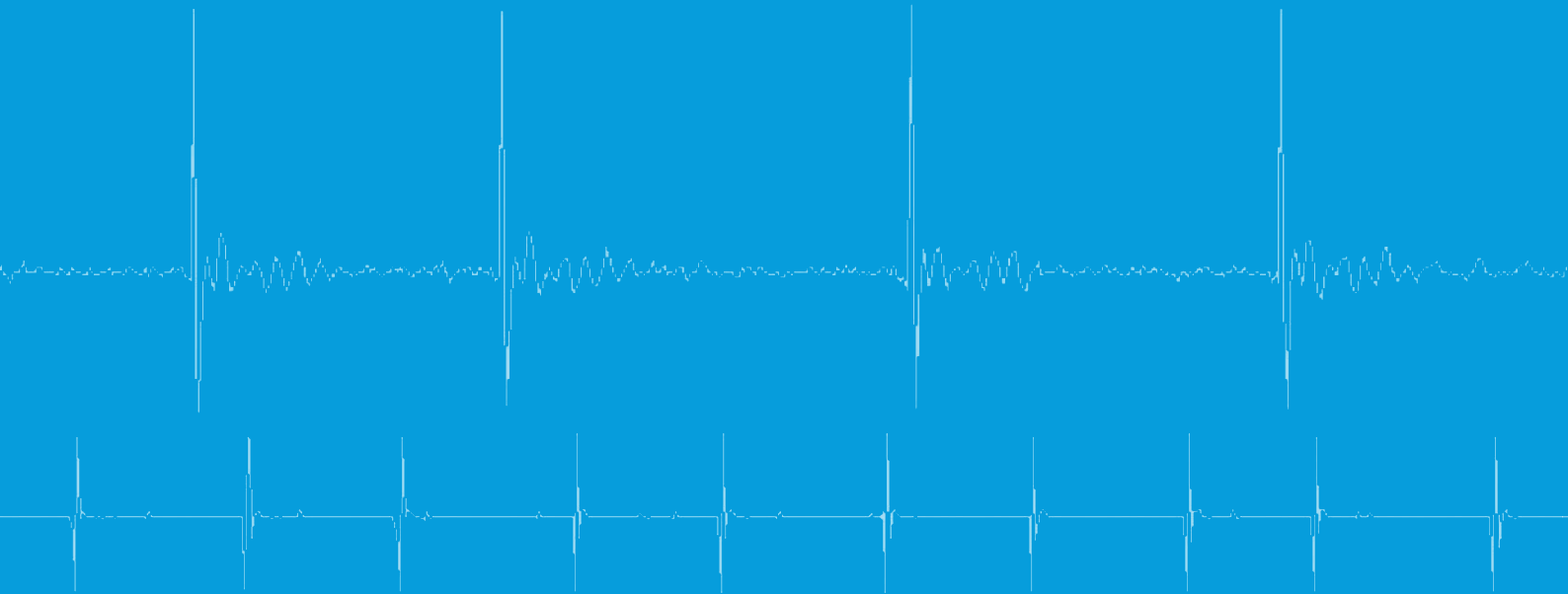
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Acute Care, Audio, EEG, EMG, IOM, LTM, and PSG Supplies and Accessories



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Lit. No. 169-434700 rev1 (2008/07)

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