### **Product Guide - Electrodes**





### **Our Mission:**

### Innovation and Quality

Axelgaard Manufacturing's mission is to deliver innovative and high quality electrodes to clinicians and patients worldwide.



Since 1985, Axelgaard has proven its reputation as a global leader in the design, development, and manufacturing of electrodes. Axelgaard products successfully improve a wide range of conditions for patients and athletes.

Our advanced design process is patient focused, utilizing patented technology to promote comfort, safety, and treatment outcome.

Axelgaard provides value to customers through precise and



state-of-the-art manufacturing technology, consistently resulting in the highest quality products.

We invite you to learn more, connect and collaborate: www.axelgaard.com | support@axelgaard.com

Our products are patent protected, see: www.axelgaard.com/PatentList

## Index

#### **Neurostimulation Electrodes**

#### Iontophoresis Electrodes

Ionto480®	 16

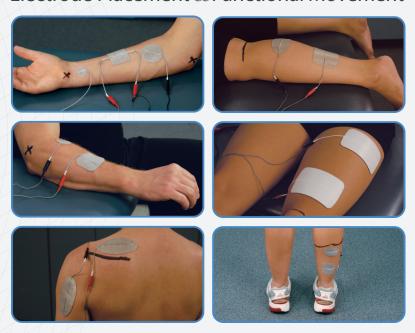
#### ECG and EMG Electrodes

	Little PALS®		17
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### **Educational Videos**

Electrode Placement & Functional Movement



We are pleased to sponsor this educational video series presented by Dr. Lucinda Baker, Associate Professor at USC Division of Biokinesiology and Physical Therapy. These videos provide comprehensive information on the preparation and use of electrodes for effective neurostimulation treatment.

All electrodes used in the video presentation are our patented PALS® neurostimulation electrodes.

#### **Multiple Viewing Options**

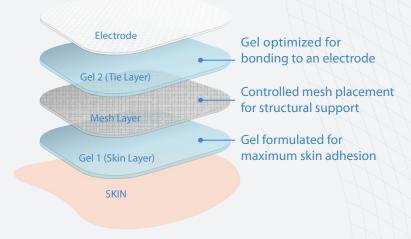
We trust these videos will assist efforts in providing the most effective treatment to your patients. DVD orders and **free** viewing/download are available on our website.

View Online at www.axelgaard.com/education

# MultiStick

#### Patented Multi-layer Adhesive Hydrogel

Axelgaard electrodes feature our multi-layered patented MultiStick hydrogel. The formulation of the hydrogel top layer is optimized for bonding to the electrode to prevent delamination. Controlled mesh placement provides consistent structural support. And the bottom layer is specifically formulated for multiple applications to skin.



#### **Superior Gel Adhesion and Performance**

This multi-layer approach ensures the highest quality electrodes in the industry and avoids the delamination and poor adhesion common in single layer gels.



#### Designed for all FES and TENS applications



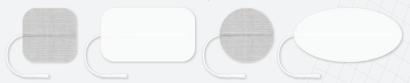
- Patented stainless steel conductive fabric provides the ultimate in flexibility and conformity.
- Patented dual-layer MultiStick hydrogel provides comfort and optimizes multiple applications to the skin.

#### **Optimum Current Distribution**

- Enhances patient comfort during stimulation.
- Disperses current evenly across the electrode.
- Eliminates stinging, edge-biting, and hot spots.

PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
J10R00	<u> </u>	1.0" (2.5cm)	4	10	40
879100	<del></del>	1.25" (3.2cm)	4	10	40
879200	$\bigcirc$	2.0" (5cm)	4	10	40
879300	0-	2.75" (7cm)	4	10	40
891100		1.1" x 2.5" (2.9cm x 6.4cm)	4	10	40
891200	$\bigcirc$	1.3" x 2.1" (3.3cm x 5.3cm)	4	10	40
895220	<u> </u>	2.0" x 2.0" (5cm x 5cm)	4	10	40
895240	$\rightarrow$	2.0" x 3.5" (5cm x 9cm)	4	10	40
895402		2.0" x 4.0" (5cm x 10cm)	2	10	20
895250	$\rightarrow$	2.0" x 5.0" (5cm x 13cm)	2	10	20
895340	$\bigcirc$	3.0" x 4.0" (7.5cm x 10cm)	2	10	20
896230	$\bigcirc$	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
896240	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40
896350	$\bigcirc$	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
		2.0" x 4.0" (5cm x 10cm)			
COM200	$\bigcirc$	3.0" x 4.0" (7.5cm x 10cm)	3	10	30
	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)			

**PALS**° Foam - features a soft foam top.



PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
975200	Θ—	2.0" (5cm)	4	10	40
975220	$\bigcirc$	2.0" x 2.0" (5cm x 5cm)	4	10	40
975240	$\longrightarrow$	2.0" x 3.5" (5cm x 9cm)	4	10	40
975250	$\bigcirc$	2.0" x 5.0" (5cm x 13cm)	2	10	20
976230	$\bigcirc$	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
976240	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40
976350	$\bigcirc$	3.0" x 5.0" (7.5cm x 13cm)	2	10	20

PALS° StimTrode°- features a white polycoated fabric top.



PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
ST32D	$\bigcirc$ —	1.25" (3.2cm)	4	10	40
ST50D	Θ—	2.0" (5cm)	4	10	40
ST75D	$\bigcirc$ —	2.75" (7cm)	4	10	40
ST5050	$\bigcirc$	2.0" x 2.0" (5cm x 5cm)	4	10	40
ST5090	$\bigcirc$	2.0" x 3.5" (5cm x 9cm)	4	10	40
ST510D	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	2	10	20

PALS\* Clinical - hypoallergenic & antimicrobial DermaFlow® gel



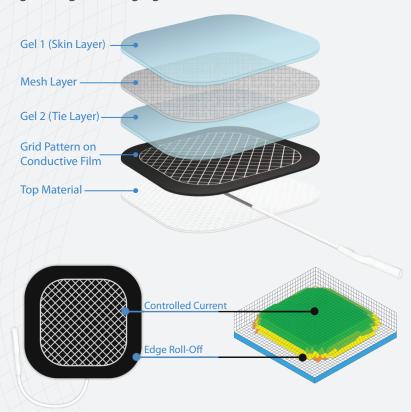
PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
210220	<u> </u>	2" x 2" (5cm x 5cm)	4	10	40

## **UltraStim**®Electrodes

Patented Current Controlling Neurostimulation

#### **Experience Stimulation Ease and Comfort**

These electrodes are developed with a scientifically calculated silver grid pattern printed on conductive material. This grid pattern precisely controls and optimizes the electrical current over the surface of the electrode. And the border around the pattern allows for an intentional current drop off. This eliminates edge biting and stinging and results in stimulation comfort.



#### Featuring MultiStick® Hydrogel

Our patented MultiStick hydrogel used in the construction of UltraStim electrodes is specially developed for adherence to conductive film as well as easy release from the patient's skin.

### Available in multiple configurations



### **UltraStim®Wire**

- Proprietary silver mixture and grid pattern precisely control and optimize electrical current over the electrode surface.
- Areas within the lines of the silver grid pattern are calculated to provide optimum current control.
- Polycoated backing provides an additional moisture barrier.



PART #	SHAPE	DESCRIPTION	#ELC/PK :	#PK/CS	#ELC/CS
UF1250	0	1.25" (3.2cm)	4	10	40
UF2000	0	2.0" (5cm)	4	10	40
UF2750	0	2.75" (7cm)	4	10	40
UF2020	0	2.0" x 2.0" (5cm x 5cm)	4	10	40
UF2040		2.0" x 4.0" (5cm x 10cm)	4	10	40
UF1525	$\bigcirc$	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
UF2400	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40

### **UltraStim®** Dual

• Offers a fixed distance between electrodes while distributing current evenly and comfortably.



PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
ULB355	THE PART OF THE PA	3.5" x 5.0" (9cm x 13cm)	1	10	10
ULB250	φφ	2.0" x 5.0" (5cm x 13cm)	2	10	20



#### **Performance and Value**

This electrode features our precisely calculated and proprietary silver grid pattern to control electrical current evenly over the surface of the electrode. The featured oversize top is specially designed to facilitate ease of proper removal to further promote electrode durability.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USX2000	Θ—	2.0" (5cm)	4	10	40
USX2020	$\bigcirc$	2.0" x 2.0" (5cm x 5cm)	4	10	40
USX2040	9	2.0" x 4.0" (5cm x 10cm)	2	10	20
USX2040-4	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40



#### **Innovation for Sensitive Skin**

These electrodes feature BLUE hydrogel for those with sensitive skin. A unique patented silver grid pattern is strategically printed on the top of the electrode, providing a comfortable therapy treatment for patients.



PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
USXB5050	<u> </u>	2.0" x 2.0" (5cm x 5cm)	4	10	40
USXB5010	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40

# UltraStim®Snap Patented Neurostimulation Electrodes

- Conductive eyelet is scientifically chosen to match impedance in the entire system to provide even current distribution.
- Proprietary silver mixture and grid pattern precisely control and optimize current over the electrode surface.
- Border surrounding the grid pattern allows for an intentional current roll off that eliminates edge biting and stinging.



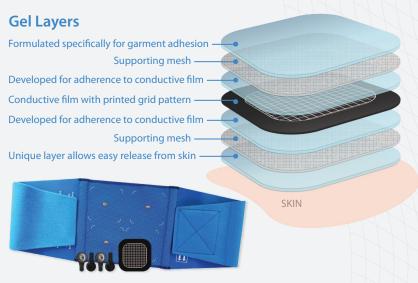
	PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
Y	SN2020	•	2.0" x 2.0" (5cm x 5cm)	4	10	40
	SN2040		2.0" x 4.0" (5cm x 10cm)	4	10	40
	SN2040-D	•••	2.0" x 4.0" (5cm x 10cm)	2	10	20

### **UltraStim®**

#### **Garments & Pad Electrodes**

#### Easy-to-Use, Patented, Lower Back TENS Solution

- Pad electrodes control current with a scientifically calculated silver grid pattern printed on conductive film and laminated between four layers of hydrogel.
- UltraStim garments are developed specifically for convenient one-person home application. Instructions printed directly on the garment assist in proper and consistent electrode positioning. The electrodes remain on the garment for easy storage and reapplication.



PART #	DESCRIPTION	PER PK	#PK/CS#	ELC/CS
B22-S	Back Garment Kit contains: 1 S/M Back Garment (Waist 25"-42", 63cm-107cm) 4 UltraStim Electrodes 2.0" x 2.0" 4 Black Snap Adapters	1	1	1
B22-L	Back Garment Kit contains: 1 L/XL Back Garment (Waist 40"-54", 102cm-137cm) 4 UltraStim Electrodes 2.0" x 2.0" 4 Black Snap Adapters	1	1	1
US2020	2.0" x 2.0" (5cm x 5cm)	4	10	40
SA1004	Black Snap Adapter	4	10	40
SA2004	White Snap Adapter	4	10	40

## **ValuTrode®**

### Conductive Film Neurostimulation Electrodes

#### **Superior Quality at an Economical Price**

- Every lead wire interface is customized for each electrode to optimize current distribution in various shapes and sizes.
- Known for their durability and multiple applications to the skin.



#### ValuTrode® Cloth size and shape options

	9,5,1	5.2c aa. 5apc op a			
PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
CF3200	0	1.25" (3.2cm)	4	10	40
CF5000	0-	2.0" (5cm)	4	10	40
CF7000	0-	2.75" (7cm)	4	10	40
CF5050	0	2.0" x 2.0" (5cm x 5cm)	4	10	40
CF4090	$\bigcirc$	1.5" x 3.5" (4cm x 9cm)	4	10	40
CF5090	$\rightarrow$	2.0" x 3.5" (5cm x 9cm)	4	10	40
CF7515	$\ominus$	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
CF4065	$\bigcirc$	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
CF5010	$\ominus$	2.0" x 4.0" (5cm x 10cm)	4	10	40
CF1020	$\rightarrow$	4.0" x 7.0" (10cm x 18cm)	1	10	10

#### ValuTrode® Foam size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK #	PK/CS	#ELC/CS
CFF125	<u> </u>	1.25" (3.2cm)	4	10	40
CFF200	$\Theta$	2.0" (5cm)	4	10	40
CFF275	Θ—	2.75" (7cm)	4	10	40
CFF202	<u> </u>	2.0" x 2.0" (5cm x 5cm)	4	10	40
CFF153	$\bigcirc$	1.5" x 3.5" (4cm x 9cm)	4	10	40
CFF203	$\bigcirc$	2.0" x 3.5" (5cm x 9cm)	4	10	40
CFF305	$\bigcirc$	3.0" x 5.0" (7.5cm x 13cm)	2	10	20
CFF152	$\bigcirc$	1.5" x 2.5" (4cm x 6.4cm)	4	10	40
CFF204	$\ominus$	2.0" x 4.0" (5cm x 10cm)	4	10	40

## **ValuTrode**%

These electrodes feature an oversized border to facilitate proper and easy removal, further extending the life of the electrode.



#### ValuTrode $^{\circ}\chi$ Cloth size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
VTX5000	<u> </u>	2.0" (5cm)	4	10	40
VTX5050	$\bigcirc$	2.0" x 2.0" (5cm x 5cm)	4	10	40
VTX50100	$\bigcirc$	2.0" x 4.0" (5cm x 10cm)	4	10	40

#### **ValuTrode**® \( \chi\$ Foam size and shape options

PART #	SHAPE	DESCRIPTION	#ELC/PK	#PK/CS	#ELC/CS
VTX2000	<del></del>	2.0" (5cm)	4	10	40
VTX2020	<u> </u>	2.0" x 2.0" (5cm x 5cm)	4	10	40
VTXF5010	00 🖵	2.0" x 4.0" (5cm x 10cm)	4	10	40





#### **lontophoresis Drug Delivery System**

- Easily accessible reservoir pad fill area allows for easy application of solution prior to removal of adhesive backing.
- Flexible foam backing with medical grade adhesive conforms to body contours.

#### **Buffered Return Electrode**

• Patented buffered gel minimizes skin irritation.

#### Kits Offer Active Drug Delivery Electrodes in a Variety of Sizes

PART #	SHAPE	KIT CONTENTS	#KITS/CS
DDS275	•	1 Small Square Active Drug Delivery Electrode (Approximate Fill Volume - 1.5cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10
DDM325		1 Medium Square Active Drug Delivery Electrod (Approximate Fill Volume - 2.5cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	<b>le</b> 10
DDL350	·	1 Large Square Active Drug Delivery Electrode (Approximate Fill Volume - 4.0cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10
DDB375	$\widetilde{\Box}$	1 Butterfly Active Drug Delivery Electrode (Approximate Fill Volume - 2.0cc) 1 Buffer Electrode, 2 Alcohol Prep Pads	10

1 Instruction, 10 Individually Packaged Kits

# LittlePALS

Our patented neonatal pediatric electrodes are a revolutionary advancement in neonatal apnea, electrocardiogram (ECG), and electromyography (EMG) biofeedback monitoring.

To meet the needs of infant patients, these electrodes provide adhesion, pliability, and sensitivity while offering resistance to heat, humidity, and dry-out conditions.



PART #	DESCRIPTION - STANDARD	#ELC/PK #PK/CS #ELC/CS		
SEN5001	<b>0.9" x 1.1" (2.2cm x 2.8cm)</b> Snap, White Fabric Top	6	10	60



PART #	DESCRIPTION - DUAL SENSOR	#ELC/PK	#PK/CS	#ELC/CS
SEN3001	<b>0.9" x 1.1" (2.2cm x 2.8cm)</b> Snap, White Fabric Top	6	10	60





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