

# **EMG-NCS**



# **Disposable Needle Electrodes**

#### Disposable Monopolar Trocar-Point Needle Electrodes

Pre-attached 0.77m (30") lead wire. Lead-free, latex-free electrode. Single patient use only. Cleared for stimulation.

SD Part Number	Length	Needle Ø	Colour	Qty
SDC-NE0800	25mm	0.35mm / 28G	Red	25 / Box
SDC-NE0802	37mm	0.35mm / 28G	Orange 🛑	25 / Box
SDC-NE0803	37mm	0.45mm / 26G	Green	25 / Box
SDC-NE0804	50mm	0.45mm / 26G	Blue	25 / Box
SDC-NE0805	75mm	0.45mm / 26G	Violet	25 / Box





High quality, consistent and accurate needles manufactured using robotic production techniques. Colour-coded hub for easy identification. Sterilized by EO gas. Single patient use only. Cable is reusable. Cable sold separately.

SD Part Number	Length	Needle Ø	Colour	Qty
SDC-NE0024	25mm	0.30mm/30G	Light Grey	25 / Box
SDC-NE0025	25mm	0.45mm / 26G	Dark Grey	25 / Box
SDC-NE0026	30mm	0.35mm / 28G	Purple •	25 / Box
SDC-NE0027	38mm	0.45mm / 26G	Green	25 / Box
SDC-NE0028	50mm	0.45mm / 26G	Yellow	25 / Box
SDC-NE0029	75mm	0.65mm / 23G	Red	25 / Box
SDC-CC0002	Reusable Concentric S	Shielded 5-pole DIN Cab	le, 1m/40" Lead wire*	Each

ARTG ID: 108391 - \* ARTG ID: 356742

#### Disposable Concentric Needle Electrodes

Engineered for optimum performance, clear and reliable signals, as well as patient comfort. For use with detachable EMG Cable . Compatible with amp/stim switch box. Single patient use only.

SD Part Number	Length	Needle Ø	Colour	Qty
SDC-NE0812	25mm	0.30mm/30G	Red	25 / Box
SDC-NE0813	25mm	0.40mm / 27G	Yellow	25 / Box
SDC-NE0814	30mm	0.30mm/30G	Pink	25 / Box
SDC-NE0815	37mm	0.45mm / 26G	Green	25 / Box
SDC-NE0816	50mm	0.45mm / 26G	Blue	25 / Box
SDC-NE0817	75mm	0.60mm / 23G	Violet •	25 / Box











# **Disposable Needle Electrodes & Cables**

#### Detachable EMG Cables, for Cadwell Concentric EMG Needles

SD Part Number	Description	Lead	Qty
SDC-CC0818	Cadwell Reusable Concentric Needle 5-pole DIN Cable	1.25m	Each
SDC-CC0819	Cadwell Reusable Concentric Needle 5-pole DIN Cable	2.0m	Each



ARTG ID: 355100



#### Disposable Injectable Needles - Neuroline Inoject™

Made of stainless steel. Beveled tip. Reduced friction at insertion. Pre-attached lead wire is 30" (70cm) long with touch-proof connector. Luer-Lock for secure syringe connection. Sterilized by EO gas. Single patient use only.



SD Part Number	Length	Needle Ø	Colour	Qty
SDA-NE0806	25mm	0.30mm/30G	Grey	10 / Box
SDA-NE0807	30mm	0.35mm / 28G	Purple •	10 / Box
SDA-NE0808	35mm	0.40mm / 27G	Blue	10 / Box
SDA-NE0809	38mm	0.45mm / 26G	Green	10 / Box
SDA-NE0810	50mm	0.50mm / 25G	Yellow —	10 / Box
SDA-NE0811	75mm	0.55mm / 24G	Red •	10 / Box



ARTG ID: 108391

#### Disposable Hypodermic Needle Electrodes

Stimulate and record. Pre-attached 75cm (30") wire with DIN 42 802 connector. Fits slip-tip and Luer-lock connections. Tri-bevel tip for smooth insertion. Latex-free. Single patient use only.

SD Part Number	Length	Needle Ø	Colour	Qty
SDC-NE0806	25mm	0.30mm/30G	Red	10 / Box
SDC-NE0808	37mm	0.40mm / 27G	Orange •	10 / Box
SDC-NE0809	37mm	0.45mm / 26G	Green	10 / Box
SDC-NE0810	50mm	0.50mm / 25G	Blue	10 / Box





ARTG ID: 277072

## **Needle Electrodes Accessories**

This Cadwell's Needle Holder is designed to securely hold up to two needle sheaths and also features a clip to provide cable management for Cadwell's EMG needles. The needle holder can be mounted on the left or right side of the amplifiers.

SD Part Number	Description	Qty
SDC-MI0002	Needle Sheath Holder clamp style w/Foam Adhesive	Each



# **Reusable Electrodes for EMG/NCS**

#### Reusable Ground Plate Electrodes

Constructed of solid stainless steel, custom-molded ground electrodes are designed with a flat contact surface that provides long-lasting performance. Can be used with tape and has a flat contact surface. Features a green lead wire with bend-relief protection for added durability.

SD Part Number	Description	Diameter	Length	Qty
SDC-SE0010	Ground Plate Electrode, Flat	30mm	61cm / 24"	Each
SDC-SE0011	Ground Plate Electrode, Flat	30mm	122cm / 48"	Each
			ARTG I	D: 192084
SDRL-SE0010	Ground Electrodes for EMG/NCV Studie	es, Green lead	61cm / 24"	Each
SDRL-SE0011	Ground Electrodes for EMG/NCV Studio	es, Green lead	122cm / 48"	Each

ARTG ID: 290956 | WAND: 190916-WAND-6T8REE





SDC-SE0011





## **Reusable Electrodes for EMG/NCS**

#### Velcro Wrap Electrode - Generic

SD Part Number	Description	Length	Qty
SDFM-SE1002	Velcro Strap for Small Electrode	30cm	Each

ARTG ID: 310991 | WAND: 181026-WAND-6RB3UX



#### Bar Electrodes

Bar and shielded bar electrodes offer increased stability. Solid, machined contacts (spaced 30mm center-to-center) can endure repeated cleaning. Polarity indicators are molded into the body. Convenient snap-on handle to fit bar electrode styles. Felt pads are single patient use.

SD Part Number	Description	Length	Qty
SDC-SE0014	Cadwell Concave Bar Electrode	61cm / 24"	Each
SDC-SE0015	Cadwell Concave Bar Electrode	122cm / 48"	Each
SDC-SE0016	Cadwell Felt Pad Bar Electrode	61cm / 24"	Each
SDC-SE0017	Cadwell Shielded Tri-lead Bar Electrode	102cm / 40"	Each
SDC-SE0018	Cadwell Shielded 5-Pole DIN Bar Electrode	102cm / 40"	Each
SDC-SE0019	Replacement Felt Pads	-	12 / Pk
SDC-SE0020	Cadwell Handle for Bar Electrode	-	Each







#### Ring Electrodes

Cadwell's stainless steel ring electrodes feature a molded grip for convenient handling, an adjustable slider that moves smoothly and locks firmly in one motion and ultra-flexible twisted lead wires with bend-relief protection at both connector ends. Available with touch-proof, 5-pole DIN and Tri-lead connectors.

SD Part Number	Description	Length	Qty
SDC-SE0029	Cadwell Ring Electrode	61cm / 24"	1 / Pair
SDC-SE0030	Cadwell Ring Electrode	122cm / 48"	1 / Pair
SDC-SE0031	Cadwell Shielded Tri-Lead Ring Electrode	102cm / 40"	1 / Pair
SDC-SE0032	Cadwell Shielded 5-Pole DIN Ring Electrode	102cm / 40"	1 / Pair

ARTG ID: 192084



5

SDC-SE0032

# **Reusable Electrodes for EMG/NCS**

#### Single Disc Electrodes

Stainless steel, custom-molded 10mm (0.4") discs offer consistently excellent signal quality. Secure taped electrode connections with the locator pin.

SD Part Number	Length	Diameter	Colour	Qty
SDC-SE0021	61cm / 24"	10mm	Black	Each
SDC-SE0022	61cm / 24"	10mm	Red •	Each
SDC-SE0023	122cm / 48"	10mm	Black	Each
SDC-SE0024	122cm / 48"	10mm	Red •	Each





ARTG ID: 192084

#### Paired Disc Electrodes

Paired disc electrodes combine both active and reference discs for faster test setup. Custom-molded 10mm (0.4") stainless steel contacts have a locator pin on the back.

SD Part Number	Description	Length	Qty
SDC-SE0025	Twisted Paired Disc Electrode	61cm / 24"	1/Pair
SDC-SE0026	Shielded Paired Touch-proof Tri-Lead Disc Electrode	102cm / 40"	1/Pair
SDC-SE0027	Shielded Paired 5-Pole DIN Disc Electrode	102cm / 40"	1 / Pair
SDC-SE0028	Paired Disc (split separate) Electrode	61cm / 24"	1 / Pair





ARTG ID: 192084



# **Disposable Electrodes for EMG/NCS**

#### Disposable Ground Electrodes

Ground electrode with attached lead wire is easily repositioned and conforms to the body. Large pad size of 40mm x 50mm allows for enough surface area for a solid ground. Each individual electrode is sealed in a pouch with 20 electrodes per box. Green lead colour.



SD Part Number	Description	Size mm	Length	Qty
SDC-SE1000	Ground Electrode with Lead wire	40 x 50	1.0m / 39"	20 / Box
SDC-SE1001	Ground Electrode with Lead wire	40 x 50	1.5m / 59"	20 / Box
SDC-SE1002	Ground Electrode with Lead wire	40 x 50	2.0m / 79"	20 / Box
SDC-SE1003	Ground Electrode with Lead wire	40 x 50	2.5m / 98"	20 / Box
SDC-SE1004	Ground Electrode with Lead wire	40 x 50	3.0m / 118"	20 / Box
	ARTG IE	): 310991   WANI	D: 181026-WAND	-6RB3UX
SDRL-SE1000	Ground Electrode with Lead wire	40 x 50	1.0m / 39"	20 / Box
SDRL-SE1001	Ground Electrode with Lead wire	40 x 50	2.0m / 79"	20 / Box
SDRL-SE0046	Ground Electrode with Lead wire	45 x 35	1.5m / 59"	40 / Box



SDC-SE1000

ARTG ID: 290956 | WAND: 190916-WAND-6T8REE

#### Disposable Tab Electrodes - Generic

SD Part Number	Description	Size mm	Qty
SDC-SE0040	NuTab™ Disposable Tab Electrode, Clear Colour	25.4 x 19	100 / Pk
		ARTG II	D: 186822



SDC-SE0040

#### Disposable Ring Electrode

Wrap-around, silver/silver chloride ring electrodes with improved hydrogel fit pediatric to adult patients. Use with mini-crocodile clip lead wires. Single patient use only. 10 Individual sets of 10 rings.



SDC-SE0035

SD Part Number	Description	Size cm	Qty
SDC-SE0035	Disposable Ring Electrode	10 x 0.6	100 / Pk
SDC-SE0037	Disposable Ring Electrode, with parallel 0.51m / 20" lea	d wires	24 / Pk



ARTG ID: 310991 | WAND: 181026-WAND-6RB3UX

#### Snap Monitoring Electrode

SD Part Number	Description	Diameter	Qty
SDMI-SE0010	3M Red Dot Monitoring Electrode Paediatric 2248-50	4.4cm	50 / Box



SDMI-SE0010

## **Disposable Electrodes for EMG/NCS**

#### Disposable NCV Electrode Sets - 2 Disc + Ground Pad

Cadwell NCS **2 Disc** + ground pad pack electrodes are colour-coded to match amplifier inputs. The red & black wires are paired in parallel to help reduce environmental noise and shock artifact, these can be separated as needed. Electrodes are pre-gelled 20mm Ag/AgCL ideal for nerve conduction, R-R Interval, autonomic and evoked potential studies. Each box contains 24 packs with 2 disc and one ground electrode in each pack.



SD Part Number	Description	Length	Qty
SDC-SE1005	NCV Disposable 2 Disc + Ground Pad Electrodes	0.5m / 20"	24 / Box
SDC-SE1006	NCV Disposable 2 Disc + Ground Pad Electrodes	1.0m / 39"	24 / Box





#### Disposable NCV Electrode Sets - 3 Disc

Cadwell NCS **3 Disc** electrodes are colour-coded to match amplifier inputs. The Red & Black wires are paired in parallel to help reduce environmental noise and shock artifact, these can be separated as needed. Electrodes are pre-gelled 20mm Ag/AgCL ideal for nerve conduction, R-R Interval, autonomic and evoked potential studies. Each box contains 24 packs with 3 disc electrodes in each pack.



SD Part Number	Description	Length	Qty
SDC-SE1012	NCV Disposable 3 Disc Electrodes	0.5m / 20"	24 / Box
SDC-SE1013	NCV Disposable 3 Disc Electrodes	1.0m / 39"	24 / Box





#### Disposable Electrodes with leads - 4 Disc

Cadwell Disposable **4 Disc** Electrodes are designed with an Ag/AgCl sensor and an extra thick and flexible conductive gel. The electrodes are used for recording, stimulation and ground use, are highly flexible and can be repositioned on all types of skin. The electrode is designed for patient comfort and user friendliness with soft wires and an optimized connector for easy headbox insertion and extraction.

SD Part Number	Description	Length	Qty
SDC-SE1007	NCV Disposable 4 Disc Electrodes	1.0m / 39"	24 / Box
SDC-SE1008	NCV Disposable 4 Disc Electrodes	1.5m / 59"	24 / Box
SDC-SE1009	NCV Disposable 4 Disc Electrodes	2.0m / 79"	24 / Box
SDC-SE1010	NCV Disposable 4 Disc Electrodes	2.5m / 98"	24 / Box
SDC-SE1011	NCV Disposable 4 Disc Electrodes	3.0m / 118"	24 / Box

ARTG ID: 277072 | WAND: 181026-WAND-6RB3UX





# **Disposable Electrodes for EMG/NCS**

#### Disposable, Surface Electrodes, Single Pre-gelled, with Lead wires

Four mil carbon film, silver/silver chloride coated.

SD Part Number	Wire Colours	Electrode Size	Lead Length	Qty
SDC-SE0050	Red, Blue, Black, Green	27 x 20mm	2.5m	12 / Box
SDFM-SE0039	White	15 x 20mm	1.0m / 39"	144 / Box

ARTG ID: 310991 | WAND: 181026-WAND-6RB3UX



#### SDFM-SE0039

#### Disposable Single Surface Electrodes for Key Point - Generic

SD Part Number	Description	Wire	Qty
SDFM-SE0025	12 Disp. Pre-gelled Central Ag/AgCl Surface Electrode, Single, Size 22 x 30mm (rec. area 10x6mm), 0,7mm Male Connector, Colour: White * Keypoint Compatible	10cm	144 / Box

ARTG ID: 310991 | WAND: 181026-WAND-6RB3UX



#### Shielded Electrode Cable - Generic

SD Part Number	Description	Length cm	Qty
SDFM-CC0001	Shielded Electrode Cable, 5 Pol DIN 2 x 0,7mm, Female TP, Red / Black	1.0m / 39"	Each
SDFM-CC0004	Shielded Electrode Cable, 5 Pol DIN 3 x 0,7mm, Female TP, Red / Black / Green	1.0m / 39"	Each





SDFM-CC0004

# **CADYELL**

#### Remote Input Box for Cadwell Summit

SD Part Number	Description	Qty
190285-200	Remote Input Box for Sierra Summit 3-12 Channel Amplifier, Cadwell	Each
362053-000	Remote Input Box Cable, Cadwell	Each
198264-000	Remote Input Overlay, 12 Channel, Reusable, Cadwell	Each



190285-200

#### Skin Temperature Probes, Cadwell Sierra

SD Part Number	Description	Lead	Qty
202600-000	Skin Temperature Probe, 1 / 8" jack, for Sierra Summit	2.0m / 78"	Each
202607-000	Skin Temperature Probe, 1 / 8" jack, for Sierra Summit	1.0m / 39"	Each
199210-200	Skin Temperature Probe, 1/4" jack, for Wave and Sierra II	1.0m / 39"	Each



Skin Temperature Probe

### Trigger Cable

SD Part Number	Description	Length	Qty
286093-000	Trigger Cable, 3.5mm Stereo plug to 2 x RCA, for Sierra Summit and Sierra Ascent	182cm	Each



#### Stim Probe Extension

SD Part Number	Description	Qty
302151-200	Stim Probe Extension Cable, two colour-coded 1.5mm safety touch-proof connectors	Each
339084-200	Stim Probe, straight, small diameter probe 30mm / 1.15"	Each





339084-200

#### Tendon Hammer

SD Part Number	Description	Qty
190282-200	Tendon Hammer, 3.5mm stereo plug, cable length 7-foot or 2.1m, for use with Sierra Summit	Each



#### Diagnostic Test Fixtures for Sierra Summit

SD Part Number	Description	Qty
199278-200	Diagnostic Test Fixture, 12-ch Test Array, for Sierra Summit	Each
199279-200	Diagnostic Test Fixture, 12-ch Summit Remote Input Box, for Sierra Summit	Each
199272-200	Diagnostic Test Fixture, Auditory Stim Output Fixture, for Sierra Summit	Each
199273-200	Diagnostic Test Fixture, 2-ch Amp Shorting / Lo Temp Fixture, for Sierra Summit	Each
199274-200	Diagnostic Test Fixture, 2-ch Amp Impedance / Hi-Temp Fixture, for Sierra Summit	Each
286097-000	Diagnostic Test Fixture, Temperature Circuit Test Cable, for Sierra Summit	Each

# **\$CAD\VELL**



199278-200



199279-200



199273-200

#### Footswitch

SD Part Number	Description	Qty
190286-200	Footswitch, for Sierra Summit and Sierra Ascent, Cadwell	Each



#### Ring/Bar Electrode Switch Box

SD Part Number	Description	Qty
190292-200	Switch Box Ring / Bar Electrode, for Sierra Summit, Cadwell	Each



190286-200



190292-200



190266-200

#### Amp/Stim Switch Box

SD Part Number	Description	Qty
190266-200	Switch Box Amp / Stim, Cadwell	Each
334829-000	Switch Box Holder, 2-ch, for Amp / Stim, Sierra Summit, Cadwell	Each
334830-000	Switch Box Holder, 3-12 ch, for Amp / Stim, Sierra Summit, Cadwell	Each
286088-000	USB A to USB B Cable, 60cm, Cadwell	Each
199263-200-003	Summit Amplifier Cable, Cadwell	Each

# **CADAVELL®**

#### LED Goggles

SD Part Number	Description	Qty
199277-200	LED Goggles, Cable Length 10ft / 3m, for Sierra Summit, Cadwell	Each



#### Headphones

SD Part Number	Description	Qty
199312-200	Headphones, RadioEar 10-ohm, for Sierra Summit	Each
096001-000	Earpiece Covers, Disposable	100 / Box

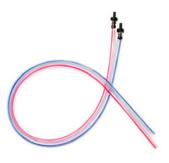


199312-200



I	Inse	rt D	arn	hor	ו מר	Vitc
ı	IIISE	Ιlt	:dlL	וטווי	16	KILS

SD Part Number	Description	Qty
198235-000	Insert Earphone, ER-3C 10 ohms Kit	Each
199295-200	Summit cable fot ER-3C	Each
355351-200	Wave / Cascade cable for ER-3C	Each
199291-200	IOMAX cable for ER-3C	Each
355350-200	Pro cable for ER-3C	Each
202698-000	Replacement tubing (Clear, Red + Blue stripes)	Pair



202698-000

## **\***CADVELL®

#### Ear Tips and Impedance Adaptors

SD Part Number	Description	Qty
202692-000	Ear Tips, Foam, Pediatric	50 / Pk
202710-000	Ear Tips, Foam, Adult	50 / Pk
202693-000	Ear Tips, Foam, Jumbo	24 / Pk
202742-200	Ear Tips, Neonate / Pediatric, 4mm (0.16 in)	20 / Pk
202743-200	Ear Tips, Neonate / Pediatric, 5mm (0.20 in)	20 / Pk
202744-200	Ear Tips, Neonate / Pediatric, 6mm (0.24 in)	20 / Pk
202691-000	Connectors (Ear Tips)	10 / Pk
202690-000	Impedance adapters	5/Pk



Ear Tips Foam



#### Gold Foil Ear Tips and Tubing with Recording Lead Wire

SD Part Number	Description	Qty
202688-000	Tubing, recording lead wire	Each
202695-000	Pediatric gold foil ear tips	20 / Pk
202689-000	Adult gold foil ear tips	20 / Pk



202688-000

# Right Angle Insert Earphone Supplies

SD Part Number	Description	Qty
202681-200	Right-angle threaded earphone adapter	10 / Pk
202682-000	Ear Tips, Foam, Slim	12 / Pk
202683-000	Ear Tips, Foam, Standard	12 / Pk



202688-000



202681-200



Foam Ear tips

#### Stimulators

SD Part Number	Description	Qty
190274-200	StimTroller $Plus^{TM}$ for EMG - NCS, Selectable 0 - 100 mA Output, Sierra Summit, Cadwell	Each
190217-200	StimTroller™ Sierra Wave, Selectable 0 - 100 mA Output, Cadwell	Each
190277-200	Stimulator Sierra Ascent, Selectable 0 - 100 mA Output, Cadwell	Each
190140-200	Stimulator 6200A, Sierra II, Sierra Series, Central Series, Selectable 0 - 100 mA Output, Cadwell	Each





190274-200

#### Stimulator Probes with Touch-proof Connectors

SD Part Number	Description	Qty
339073-200	Stimulator Probe, Straight, Large diameter, Round head .250 in / 6.35mm	Each
339080-200	Stimulator Probe, Straight, Small diameter, Round Head .187 in / 4.75mm	Each
339078-200	Stimulator Probe, Straight, with Pointed Tip	Each
339079-200	Stimulator Probe, Felt Pad Tip	Each
302703-200	Felt Pad Replacement Tips for Stimulator Probe	Each



190277-200



339080-200



339078-200



SD Part Number	Description	Qty
360039-200	Stimulator Probe, Straight, for Ascent, Sierra II, Central, Excel Plus and 6200A Electrical Stimulators	Each





360039-200

#### Quick Connect Adapter

SD Part Number	Description	Qty
302228-200	Quick Connect Adapter, Two twisted sets, each 20.32cm (8 in) long, for ring or bar electrodes to stimulators	Each



### **Ultrasound Probes and Accessories**

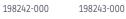
## **\$CADVELL**

#### SmartUs Ultrasound Transducer Probes

SD Part Number	Description	Qty
198250-000	SmartUs Ultrasound Transducer Probe, Curvilinear 2-5 MHz, Convex	Each
198242-000	SmartUs Ultrasound Transducer Probe, L15-7L40H-5, 7.5-15.0 MHz Linear, 40mm	Each
198243-000	SmartUs Ultrasound Transducer Probe, L15-6L25N-4 small footprint 7.5-15 MHz Linear, 25mm	Each
334851-000	SmartUs C-Clamp Holder	Each
198238-000	MicrUs Ultrasound Transducer Probe, L15-6L25S-3, 6.0-15.0 MHz Linear 25mm	Each
198241-000	MicrUs Ultrasound Transducer Probe, L12-5L40S-3, 5.0-12.0 MHz Linear, 40mm	Each
334850-000	MicrUs C-Clamp Holder	Each
334852-000	Probe C-Clamp Holder	Each
198246-000	Carry Case	Each















# **ULTRASOUND**

ERR Summit

Sierra® Summit™ with ultrasound, a completely integrated electrodiagnostic and imaging solution. Two ultrasound options with a variety of transducers to fit your requirements.

# **Complement your** electrodiagnostic testing

## Improve your diagnosis and treatment decisions



3-12 Ch. Amp. Sierra Summit 190280-200





Symbiotic Devices was founded in 2012 on a passion not only for neuroscience and neurotechnology, but also to provide clients with uncompromised quality, reliability and assistance. Striving to contribute to a sustainable successful research and clinical sectors across Australia and New Zealand, Symbiotic Devices aims to balance quality, accessibility and customisation.

We know that each neurophysiology project will present unique challenges, and our wide range of partners means we are able to provide customised and dynamic solutions to fit our client's needs.

First partnering with Brain Products, EasyCap and Rogue Research, Symbiotic Devices now proudly represents CED, Deymed, Cadwell, NeuroConn/NeuroCare, Rhythmlink, Pearl Technology and VPixx.

If you want the best solutions for your neuroscience and neurophysiology needs, you can trust Symbiotic Devices to provide the highest quality equipment, applications and support while contributing to a sustainable and ethical future for neuroscience practices.



au 1300 934 947 nz 09 886 4877 team@symbioticdevices.com.au Unit 6, 105-111 Ricketts Rd, Mount Waverley, VIC 3149

www.symbioticdevices.com.au

