

EEG Caps & Accessories



Symbiotic Devices offers a comprehensive range of caps to suit most applications. In order to reach an optimal fit, a complete range of 12 different sizes is available, choose between Asia or Caucasian Cut, as well as several colours and number of contact points.



Symbiotic Devices offers caps compatible with most EEG Amplifier Systems in the market

TMS, MEG & MRI Compatible







Layouts



International 10/20 System Electrodes are distance of 10% or 20% from Cz down to the hat line



Specialized equidistant Electrodes are equidistant to each other via trigonometry calculation

If unsure what options are available for your setup, please contact us.

team@symbioticdevices.com.au | Ph: 1300 934 947



Various cap cuts and types for improved coverage and fixation

Cap Types

Caps are available in two types, **Subtemporal** - the classic cap cut, and **Sub-Inion** - which has additional fabric below the chin, at the middle of the cheek and at the back of the head.

Subtemporal (White)
Sub-Inion (Black)

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Cap Cuts

Available in **Caucasian** and **Asian**. The **Caucasian** cut provides a better fit for more oval/rectangular head shapes and is commonly used worldwide. The **Asian** cut is suited for rounder head shapes and typically provides a better fit for participants from countries like e.g. Korea, China, Taiwan and Japan.

High-Precision

Cap Fabrics

All caps can be made with your choice of two different types of fabric: **high-precision fabric** and **high-comfort fabric**.

High-precision fabric is of medium elasticity and has advantages in that it provides a precise reproduction of electrode positions, a longer life span and a quick drying time.

High-comfort fabric is of higher elasticity and works with a variety of head shapes. In the majority of caps, we use the high-precision fabric for adult and juvenile cap sizes and the high-comfort fabric for baby cap sizes.

High-Comfort







CAP Sizes Adult, Children, Infant



Sizes 56 and 58 will be suitable for approx. 80 % of all adult test subjects.

Cap Size	Age	Cap Size	Age	
20	Preterm week 22	42	5 Months	
22	Preterm week 24	44	7 Months	
24	Preterm week 26	46	1 Year	
26	Preterm week 28	48	2 Years	
28	Preterm week 30	50	3 – 4 Years	
30	Preterm week 32	52	5 – 10 Years	
32	Preterm week 34	54	11 – 14 Years, Adult Small Female	
34	Preterm week 37	56	15 – 17 Years, Adult Medium Fema	
36	Newborn	58	18 Years, Adult Medium Male	
38	1 Month	60	Adult Large Male	
40	3 Months	62	Adult Extra Large Male	
		64	Adult Extremely Large Male	



ActiCAP Active Slim electrodes are a very thin low-profile active electrode based on high-quality Ag/ AgCl sensors as well as "active" circuits that are integrated within the electrode to deliver very low noise levels, that make it possible to perform recordings at higher impedances.

Impedance measure and display

- Measured by a noise free impedance testing module in the electrodes.
- · Displayed at each electrode by using LEDs (the impedance level can be set by the software)
- · Stored in a text file and can be reviewed during data analysis.

Fast and easy application time

- Possibility to inject the gel through the electrode, which can be plugged into the cap before the cap is placed on the participant.
- Direct impedance feedback with integrated colour coded LEDs makes electrode preparation much faster and easier.

Quality materials and easy maintenance

- Kevlar strand in cable
- Pellet integrated in housing
- Possible to replace single electrodes very easily (< 5 minutes and can be performed by yourself)
- · Comfortable high precision cap with various sizes
- Snap electrode holders allow for easy electrode placement and removal.





Lightweight

• Low profile - reduces movement of the electrodes and motion artifacts in EEG data.

Recommended for

- Infant EEG
- BCI and Mobi EEG
- \cdot EEG/TMS, EEG/ERP, EEG
- \cdot Sleep research

Wide hardware compatibility

• Compatible with LiveAmp, actiCHamp, BrainAmp and many other amplifiers via the actiCAP ControlBox.

Other notable features:

Active shielding

CactiCAP Snap Empty Cap with actiCAP SNAP Holders

Standard Cut:Standard Fabric:Standard Fabric:HStandard Layout:C.	b be specified ub-Inion igh Precision ACS vailable
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SD Part Number	Description	Qty
SDEC-C0200-21-#	Standard 21Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (Int. 10 / 20-System) CACS-21.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-21A-#	Standard 21Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (Int. 10 / 20-System) CACS-21.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0200-32-#	Standard 32Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (Int. 10 / 20-System) CACS-32.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-32A-#	Standard 32Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (Int. 10 / 20-System) CACS-32.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0200-64-#	Standard 64Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-64.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-64A-#	Standard 64Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-64.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0200-96-#	Standard 96Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-96.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-96A-#	Standard 96Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-96.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0200-128-#	Standard 128Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-128.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-128A-#	Standard 128Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-128.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0200-160-#	Standard 160Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-160.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0200-160A-#	Standard 160Ch Empty Cap, size #, with actiCAP SNAP Holders according to layout (10%-System) CACS-160.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only

CactiCAP Snap for LIVEAMP (Empty Cap with tornister and actiCAP SNAP Holders)

Size:	To be specified
Standard Cut:	Sub-Inion
Standard Fabric:	High Precision
Standard Layout:	CLACS
Customisation:	Available

SD Part Number	Description	Qty
SDEC-C0310-21-#	Standard 21Ch Empty Cap, size #, with actiCAP SNAP Holders according to CLACS-21.doc. Subtemporal white, high precision with tornister(CAUCASIAN CUT)	Each
SDEC-C0310-21A-#	Standard 21Ch Empty Cap, size #, with actiCAP SNAP Holders according to CLACS-21.doc. Subtemporal white, high precision with tornister (ASIA CUT)	Each
SDEC-C0310-32-#	Standard 32Ch Empty Cap, size #, with actiCAP SNAP Holders according to CLACS-32.doc. Subtemporal white, high precision with tornister(CAUCASIAN CUT)	Each
SDEC-C0310-32A-#	Standard 32Ch Empty Cap, size #, with actiCAP SNAP Holders according to CLACS-32.doc. Subtemporal white, high precision with tornister (ASIA CUT)	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only



CactiCAP Classic Empty Cap with actiCAP Holders

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Size:To be specifiedStandard Cut:Sub-InionStandard Fabric:High PrecisionStandard Cap Colour:WhiteStandard Layout:CMACustomisation:Available

Color-coded LEDs allow users to save additional time when preparing the cap

SD Part Number	Description	Qty
SDEC-C0100-21-#	Standard 21Ch Empty Cap, size #, with actiCAP Holders according to CMA-21.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-21A-#	Standard 21Ch Empty Cap, size #, with actiCAP Holders according to CMA-21.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0100-32-#	Standard 32Ch Empty Cap, size #, with actiCAP Holders according to CMA-32.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-32A-#	Standard 32Ch Empty Cap, size #, with actiCAP Holders according to CMA-32.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0100-64-#	Standard 64Ch Empty Cap, size #, with actiCAP Holders according to CMA-64.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-64A-#	Standard 64Ch Empty Cap, size #, with actiCAP Holders according to CMA-64.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0100-96-#	Standard 96Ch Empty Cap, size #, with actiCAP Holders according to CMA-96.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-96A-#	Standard 96Ch Empty Cap, size #, with actiCAP Holders according to CMA-96.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0100-128-#	Standard 128Ch Empty Cap, size #, with actiCAP Holders according to CMA-128.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-128A-#	Standard 128Ch Empty Cap, size #, with actiCAP Holders according to CMA-128.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each
SDEC-C0100-160-#	Standard 160Ch Empty Cap, size #, with actiCAP Holders according to CMA-160.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (CAUCASIAN CUT)	Each
SDEC-C0100-160A-#	Standard 160Ch Empty Cap, size #, with actiCAP Holders according to CMA-160.doc. Unified layout, usable with / without Ref, Subtemporal white, high precision (ASIA CUT)	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only





Make sure the black splitter box does not come into contact with water. Therefore, cover the splitter box with a towel.



Start cleaning the electrodes one after the other using a soft brush.



Leave the electrodes to dry as shown in the illustration. Thus no water can run along the wires into the splitter box.



Fill a plastic bowl with lukewarm water and put the electrodes into the water. Leave the electrodes in the water for approx. 10 min.



After you have cleaned the electrodes, cover them with a towel.

Warnings

· The splitter box contains electronic components. Never let it come into contact with water!



- · Do not let the gel dry before cleaning.
- \cdot Do not soak the electrodes for extended periods of time.
- \cdot Do not use a metal bowl, as this can cause a coating to form on the sensitive Ag/AgCl pellets of the electrodes.
- \cdot Incorrect use of the electrodes, may result in breaking the sensitive Ag/AgCl pellets.

R-NET

Potassium chloride water-based electrode system, using saltwater sponges and passive Ag/AgCl electrodes that are held in place with a durable and flexible silicone structure. It allows for rapid preparation and high recording flexibility.

For a trained user it takes roughly 3 minutes to set it up, regardless of channel count. It can be easily prepared with a potassium chloride electrolyte solution, allowing for the fastest preparation time out of all electrode systems.

Sizes:

The R-Nets are available in the following sizes: 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61 and 63.

Maintenance:

R-Net allows you to replace single damaged electrodes.

Wide Hardware Compatibility

Compatible with LiveAmp, the actiCHamp Plus, BrainAmp and many other amplifiers including EGI.





BrainCap

Fitted with a <3.5mm Sintered Ag/AgCl Mutitrode ring electrodes for long comfortable recordings and high data quality. Multitrodes offer a large central opening to allow for easy impedance minimisation and to create a wide-spread contact area between the skin and electrolyte-gel, and from gel to sensor. Cap material is certified by Oeko-Tex and is skin-friendly.

BrainCaps come in several variants optimized for EEG Recordings simultaneously with other data acquisition technologies, where active electrodes cannot be used.



Size: Standard Cut: Standard Fabric: Standard Layout: Connector: Customisation: To be specified Subtemporal High Precision BC Use with BrainAmp (other connectors welcome) Available

SD Part Number	Description	Qty
SDEC-C0300-22-#	Standard 22 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10 / 20-System) according to ""BC-22.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt	Each
SDEC-C0300-22A-#	Standard 22 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10 / 20-System) according to ""BC-22.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-32-#	Standard 32 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10 / 20-System) according to ""BC-32.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-32A-#	Standard 32 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10 / 20-System) according to ""BC-32.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-64-#	Standard 64 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-64A-#	Standard 64 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-64.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-96-#	Standard 96 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-96.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-96A-#	Standard 96 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-96.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-128-#	Standard 128 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-128.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0300-128A-#	Standard 128 Ch BrainCap with Sintered Ag / AgCl-Multitrodes, Layout (Int. 10%-System) according to ""BC-128.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only

BrainCap TMS

TMS compatible EEG cap, offers very flat <3.0mm electrodes with intermittent ring shape to avoid unwanted current induction and the TMS coil to be placed very close to the scalp.

The electrodes have an intermittent ring shape to avoid unwanted current induction, Sintered Ag/AgCl sensors allow Electrodes to be freely rotated allowing the best geometry for any stimulation point or channel number.

The BrainCap TMS with Multitrodes electrodes have an intermittent ring shape to avoid unwanted current induction, Both the actiCAP Slim TMS and the BrainCap TMS cap is delivered with unsecured wires, to allow the electrodes to be freely rotated allowing the best cable geometry for any stimulation point. This is important, as cables that are led away radially from the site of the stimulation allowing for shorter recovery times of the EEG signals following TMS stimulation to be achieved. In addition, REF (and GND) electrodes should be located further away from the site of the stimulation to reduce the TMS pulse artifact.

If combined with the BrainAmp DC or BrainAmp MR Plus, or actiCHamp Plus existing published scientific articles suggest that physiological activity is visible just 5ms following TM-stimulation.

BRAIN BRAINCAP TMS

Size:	To be specified
Standard Cut:	Subtemporal with integrated chin belt
Standard Fabric:	High Precision
Standard Cap Colour:	White
Standard Layout:	BC-TMS
Customisation:	Available

High quality, clean EEG recording with simultaneous applications of TMS and short recovery times

SD Part Number	Description	Qty
SDEC-C0600-21-#	Standard 21-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-TMS-21.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-21A-#	Standard 21-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-TMS-21.doc" (ASIA CUT) High precision cap fabric, Subtemporal white, high precision (ASIA CUT). Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-32-#	Standard 32-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-TMS-32.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-32A-#	Standard 32-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-TMS-32.doc" (ASIA CUT) High precision cap fabric, Subtemporal white, high precision. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-64-#	Standard 64-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-64.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-64A-#	Standard 64-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-64.doc" (ASIA CUT) High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-96-#	Standard 96-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-96.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-96A-#	Standard 96-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-96.doc" (ASIA CUT) High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-128-#	Standard 128-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-128.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-128A-#	Standard 128-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-128.doc" (ASIA CUT) High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-160-#	Standard 160-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-160.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-160A-#	Standard 160-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-160.doc" (ASIA CUT) High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-192-#	Standard 192-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-192.doc" High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
SDEC-C0600-192A-#	Standard 192-Ch BrainCap TMS, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-TMS-192.doc" (ASIA CUT) High precision cap fabric, white. Electrodes with individual safety sockets and EIB	Kit
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Refers to size, please see table on page 4

ARTG ID: Investigational use only

Landmark Caps for TMS Position

A landmark cap shows the 19 core positions of International 10 / 20-System and can be used as a map to allow easy location for precise TM-Stimulation points.

- \cdot CUC-L-58 for the average adult male head size
- \cdot CUC-L-54 for the average adult female head size
- Other sizes, other markings, 10 / 10-positions
- as well as black fabric are all available.



Size:
Standard Cut:
Standard Fabric:
Standard Cap Colour:
Customisation:

To be specified Subtemporal with integrated chin belt High Precision White or Black Available

SD Part Number	Description	Qty
SDEC-C0900-#	Subtemporal Cap with 19 marks and name labels for head circumference size# Black, medium elasticity, CAUCASIAN CUT, high precision. Includes chin strap.	Each
SDEC-C0901-#	Subtemporal Cap with 19 marks and name labels for head circumference size# White, medium elasticity, CAUCASIAN CUT, high precision. Includes chin strap.	

Refers to size, please see table on page 4



EEG CAPS & ACCESSORIES

BrainCap TMS - Replacement Caps

SD Part Number	Description	Qty
SDEC-C0601-#	Subtemporal Cap (Fabric Only) ASIA CUT, High Precision, white with 22 openings for B18-TMS according layout BC-TMS-22, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0602-#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 22 openings for B18- TMS according layout BC-TMS-22, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0603-#	Subtemporal Cap (Fabric Only) ASIA CUT, High Precision, white with 36 openings for B18-TMS according layout BC-TMS-32, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0604-#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 36 openings for B18- TMS according layout BC-TMS-32, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0605#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 68 openings for B18- TMS according layout BC-TMS-64, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0606-#	Subtemporal Cap (Fabric Only) ASIA CUT, High Precision, white with 68 openings for B18-TMS according layout BC-TMS-64, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0607-#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 100 openings for B18- TMS according layout BC-TMS-96, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0608-#	Subtemporal Cap (Fabric Only) ASIA CUT, High Precision, white with 100 openings for B18-TMS according layout BC-TMS-96, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0609-#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 132 openings for B18- TMS according layout BC-TMS-128, without electrodes (REPLACEMENT CAP, NO EIB)	Each
SDEC-C0610-#	Subtemporal Cap (Fabric Only) CAUCASIAN CUT, High Precision, white with 132 openings for B18- TMS according layout BC-TMS-128, without electrodes (REPLACEMENT CAP, NO EIB)	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only



BrainCap MR

BrainCap MR

fMRI compatible EEG cap, offers very flat, <3.5mm electrodes with Sintered Ag/AgCI sensors for long comfortable recordings and high data quality. The BrainCap Mr offers the following features to ensure the highest possible levels of safety when acquiring EEG data in an MRI scanner:

- Externally secured cables to prevent formation of loops
- EKG electrode is packaged in a thermo resistant tubing and features a built-in 15-kOhm safety resistor
- Electrodes have built-in 5-kOhm safety resistors
- \cdot Short cable tree 31 cm
- \cdot Short amplifier connection cable (10cm)





BrainCap MR with Carbon Wire Loops

Movement-induced signals can be measured by a loop moving inside a magnetic field (Faraday's law of induction). As such, CWLs attached to the BrainCap MR can be used for obtaining reference signals inside the MRI scanner. The small movements of these CWLs in the magnetic field generate signals that can then be used to estimate and remove motion artifacts from the EEG.

Consisting of five bipolar loops permanently attached to cap fabric and situated; the centres of the loops are at AFz, T7, T8, CCPz, and Oz. The CWLs can be included on any of our standard BrainCap MRs and can be used in MRI scanners up to 3T.



BrainCap MR

BrainCap MR Incorporates features for safety and MR-image quality

Size:	
Standard Cut:	
Standard Fabric:	
Standard Layout:	
Connector:	
Customisation:	

To be specified Subtemporal High Precision BC-MR Use with BrainAmp Available



SD Part Number	Description	Qty
SDEC-C0400-32-#	Standard 32-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to ""BC-MR-32.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-32A-#	Standard 32-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to ""BC-MR-32.doc"" (ASIA CUT) High precision cap fabric, Subtemporal white, high precision. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-64-#	Standard 64-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-64A-#	Standard 64-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc"" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-96-#	Standard 96-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-96A-#	Standard 96-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc"" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-128-#	Standard 128-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0400-128A-#	Standard 128-Ch BrainCap MR, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to ""BC-MR-64.doc"" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only

BrainCap MEG

The MEG compatible EEG cap, offers very flat, <3.5mm Sintered Ag/AgCl ring electrodes for long comfortable recordings and a special cable arrangement and method of securing cables to ensure high quality MEG acquisition. All cap materials are manufactured using a special procedure to make them completely demagnetized.



Size:	To be specified
Standard Cut:	Subtemporal
Standard Fabric:	High Precision
Standard Layout:	BC-MEG
Connector:	Use with BrainAmp
Customisation:	Available

Designed for MEG recordings with simultaneous MEG, MEG-compatibility is well proven.

SD Part Number	Description	Qty
SDEC-C0500-22-#	Standard 22-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-MEG-22.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0500-22A-#	Standard 22-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-MEG-22.doc" (ASIA CUT) High precision cap fabric, Subtemporal white, high precision. Integrated chin belt and buckles to attach a chest belt."	Each
SDEC-C0500-32-#	Standard 32-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-MEG-32.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt."	Each
SDEC-C0500-32A-#	Standard 32-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10 / 20-System) according to "BC-MEG-32.doc" (ASIA CUT) High precision cap fabric, Subtemporal white, high precision. Integrated chin belt and buckles to attach a chest belt."	Each
SDEC-C0500-64-#	Standard 64-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4

Table continues on next page >

BrainCap MEG

SD Part Number	Description	
SDEC-C0500-64A-#	Standard 64-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0500-96-#	Standard 96-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0500-96A-#	Standard 96-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0500-128-#	Standard 128-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0500-128A-#	Standard 128-Ch BrainCap MEG, Size #, with Sintered Ag / AgCl Multitrodes, Layout (10%-System) according to "BC-MEG-64.doc" (ASIA CUT) High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only



BrainCap Sleep

Size: Standard Cut: Standard Fabric: Standard Cap Colour: Standard Layout: Customisation:	To be specified Subtemporal with integrated chin belt Soft, high-elasticity fabric Black BC-SL Available		A complete cap with built-in electrodes optimized for sleep recording situations
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SD Part Number	Description	Qty
SDEC-C0700-15-#	Standard 15Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-15. doc", ending in safety sockets. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0700-15A-#	Standard 15Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-15. doc", ending in safety sockets (ASIA CUT). Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0700-32-#	Standard 32Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-32. doc", ending in safety sockets plus quick connect interface. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0700-32A-#	Standard 32Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-32. doc", ending in safety sockets plus quick connect interface (ASIA CUT)	Each
SDEC-C0700-64-#	Standard 64Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-64. doc", ending in safety sockets plus quick connect interface. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0700-64A-#	Standard 64Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-64. doc", ending in safety sockets plus quick connect interface (ASIA CUT)	Each
SDEC-C0700-128-#	Standard 128Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC- SL-128.doc", ending in BrainCap connector boxes. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C0700-128A-#	Standard 128Ch BrainCap Sleep, with Sintered Ag / AgCl Multitrodes Layout according to "BC-SL-128.doc", ending in BrainCap connector boxes (ASIA CUT). Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only



team@symbioticdevices.com.au | Ph: 1300 934 947

TinCap

Tin electrodes offer sensors made of pure solid tin that are suitable for clinical EEG and evoked potentials and for most event-related potentials.

They are mechanically strong, absolutely waterproof with tough cables that can withstand high mechanical and chemical stress. They are suitable for recordings, using and AC amplifier (or an amplifier in AC mode) with a high-pass filter equal to or higher than 0.3 Hz (time constant: 0.53 sec).

Available as single electrodes or mounted together in complete EEG-recording caps with either large or small center openings.

- Large openings can accommodate both, cotton swabs for painless and effective impedance minimisation, or syringes with or without blunted needle.
- Small openings can be used only with blunted needles.

Please note:

- Not recommended for simultaneous EEG recording with fMRI, MEG or TMS.

- Signals are much more susceptible to movement artifacts and noise, and frequencies smaller than 3Hz cannot be recorded.

Size: Standard Cut: Standard Fabric: Standard Layout: Connector: Customisation:	To be specified Subtemporal High Precision TC Touch-proof Available	Absolutely waterproof electrodes with tough cables capable to handle mechanical and chemical stress
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SD Part Number	Description	Qty
SDEC-C1100-21-#	Standard Subtemporal 21-Ch TinCap, Size #, with tin electrodes with 6mm center hole Layout (10 / 20-System) according to ""TC21.doc"" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt."	Each
SDEC-C1100-32-#	Standard Subtemporal 32-Ch TinCap, Size #, with tin electrodes with 6mm center hole Layout (10 / 20-System) according to "TC21.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C1100-64-#	Standard Subtemporal 64-Ch TinCap, Size #, with tin electrodes with 6mm center hole Layout (10 / 20-System) according to "TC21.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C1100-96-#	Standard Subtemporal 96-Ch TinCap, Size #, with tin electrodes with 6mm center hole Layout (10 / 20-System) according to "TC21.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each
SDEC-C1100-128-#	Standard Subtemporal 128-Ch TinCap, Size #, with tin electrodes with 6mm center hole Layout (10 / 20-System) according to "TC21.doc" High precision cap fabric, white. Integrated chin belt and buckles to attach a chest belt.	Each

Refers to size, please see table on page 4







www.symbioticdevices.com.au

ARTG ID: Investigational use only

EasyCap

The EasyCap is a unique modular design offering versatility and value for money. Several caps (sizes and various layouts) equipped with electrode holders can be used with a single set of electrodes.

Features

- Unique modular design
- Cap material is certified by Oeko-Tex and is skin-friendly
- The lowest impedances provide high levels of comfort to the patient
- Superior Signal Quality from Ag / AgCl Sintered Electrodes. Ag / AgCl sensors are characterized by the high levels of clarity and extremely faithful reproduction. These allow both DC acquisition and acquisition across the entire spectrum of frequencies that occur in the EEG (e.g. brainstem potentials).
- · Also available as single electrodes.



Size: Standard Cut: Standard Fabric: Standard Cap Colour: Standard Layout: Customisation:	To be specified Subtemporal with integrated chin belt High Precision White EC Available	The EasyCap system is a great value option offering a wide range of sizes & layouts
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SD Part Number	Description	Qty
SDEC-C0800-21-#	Ready-to-use EEG Recording Cap Set for 21 Channels, cap size #	Each
SDEC-C0800-21A-#	Ready-to-use EEG Recording Cap Set for 21 Channels, (ASIA CUT) cap size #	Each
SDEC-C0800-40-#	Ready-to-use EEG-Recording Cap Set for 32 / 40 Channels, cap size #	Each
SDEC-C0800-40A-#	Ready-to-use EEG-Recording Cap Set for 32 / 40 Channels, (ASIA CUT) cap size #	Each
SDEC-C0800-32-#	Ready-to-use EEG-Recording Cap Set for 32 Channels, cap size # with special quick-connect-interface to BrainAmp	Each
SDEC-C0800-32A-#	Ready-to-use EEG-Recording Cap Set for 32 Channels, (ASIA CUT) cap size # with special quick-connect-interface to BrainAmp	Each
SDEC-C0800-80-#	Ready-to-use EEG Recording Cap Set for 64 / 80Channels, cap size #	Each
SDEC-C0800-80A-#	Ready-to-use EEG Recording Cap Set for 64 / 80Channels, (ASIA CUT) cap size #	Each
SDEC-C0800-64-#	Ready-to-use EEG-Recording Cap Set for 64 Channels, cap size # with special quick-connect-interface to BrainAmp	Each
SDEC-C0800-64A-#	Ready-to-use EEG-Recording Cap Set for 64 Channels, (ASIA CUT) cap size # with special quick-connect-interface to BrainAmp	Each

Refers to size, please see table on page 4

ARTG ID: Investigational use only

EasyCAP - Replacement Caps

SD Part Number	Description	Qty
SDEC-C0801-#	Standard Empty Cap Size # with holders for EC-20, subtemporal white, high precision, ASIA CUT, according to layout M25	Each
SDEC-C0802-#	Standard Empty Cap Size # with holders for EC-20, subtemporal white, high precision, CAUCASIAN CUT, according to layout M25	Each
SDEC-C0803-#	Standard Empty Cap Size # with holders for EC-40, subtemporal white, high precision, ASIA CUT, according to layout M24	Each
SDEC-C0804-#	Standard Empty Cap Size # with holders for EC-40, subtemporal white, high precision, CAUCASIAN CUT, according to layout M24	Each
SDEC-C0805-#	Standard Empty Cap Size # with holders for EC-80, subtemporal white, high precision, CAUCASIAN CUT, according to layout M1	Each
SDEC-C0806-#	Standard Empty Cap Size # with holders for EC-80, subtemporal white, high precision, ASIA CUT, according to layout M1	Each

Refers to size, please see table on page 4



Caps for Animals

Caps can be made for individual animals based on race and head circumference.







SD Part Number	Description	Qty
SDEC-C9553	Cap for Dog - Border Collie, Standard size, Black Colour, Medium elasticity	Each
SDEC-C9554	Cap for Dog - Labrador, Standard size, Black Colour, Medium elasticity	Each
SDEC-C9###	Custom Animal Caps	Each

Electrodes & Caps Care

Cleaning & Maintenance

Cleaning

The easiest and most convenient way to clean cap and electrodes is to carry the cap together with the electrodes to the sink directly after use, hence before the electrolyte starts drying up - and rinse the electrolyte gel o under the running tap. In case of dried gel leftovers, soak the cap for a short time (30sec) in tap water before rinsing as above. If then still gel remains on the electrodes, brush it o carefully using a (soft) toothbrush. As the dried gel is not conductive, you may otherwise not achieve good impedances in the next EEG-Recording. If in your region there is hard tap water the last step of cleaning should be – at least every now and then – to briefly swivel the electrode in distilled water. Finally, remove any excess water with a towel, tissue, or the like, and store the cap and electrodes in a dry and dark place.

Further detergents are only necessary, if something fatty/greasy is involved (sweat, hand cream, styling gel, dirt, etc.). Please do NOT use dish detergents, as these leave a film on the surface of cleaned electrodes, which impedes to achieve good impedances later on. Pure soap or baby shampoos provide a better option. Give some cleanser into a bowl with tap water, soak the cap and the electrodes (but not the connectors) for a short time (30 to 60 seconds), then rinse as above.

In case your caps are disinfected after washing, no intermediate stage of cleaning with detergent is necessary, as the latter is also an ingredient of any disinfection solution.

In case you are using an electrolyte paste instead of gel, it might be necessary to assist the rinsing under the running lukewarm tap with a brush right away.

In case your tap water is chlorinated, please swivel caps and electrodes briefly in distilled water after each cleaning. Although there is no direct evidence for adverse effects by chlorine we recommend this step as a general precaution due to the reactivity of chlorine.

In case you have a cap with detachable electrodes, the cap WITHOUT the electrodes can be washed in the washing machine when necessary - at 30 degree Celsius using a mild detergent, but without centrifuge. For drying the cap store it in a dry and dark place – please do not dry it in the dryer.

Handling and Maintenance

The life-span of the electrodes depends decisively on the handling.

The critical spot of an electrode is where the elastic cable goes into the solid electrode housing. This place should be kept free of any mechanical pressure as much as possible:

- When attaching or detaching the electrodes, touch only from the side opposite to the cable and allow free movement of cable.
- When fitting the cap, do not overstretch it more than necessary.
- Clean the cap and the electrodes under running tap directly after each recording session (see above).

Furthermore, do not leave the electrodes in water for a long time, and do not expose the cap and the electrodes to temperatures over 35 degrees.

Error diagnostics: Overall, electrodes are a simple device, they work or work not. Changes in surface colours can be ignored. As long as the signal is good, the electrode is good too, there are no hidden effects. If the signal is not good anymore, and the electrode is clean, then most probably you will detect the damage with the naked eye or by measuring ohmic continuity with a multi-meter. (In case of caps with multi-channel connectors the respective pin assignments can be obtained from us.) Of course, you can always call or e-mail Symbiotic Devices, send pictures of possible damages or send the electrodes for a closer inspection.

EEG CAPS & ACCESSORIES

Replacement Caps

Size:	To be specified
Standard Cut:	Subtemporal with integrated chin belt
Standard Fabric:	High Precision or Soft, high-elasticity fabric
Standard Cap Colour:	White or Black
Standard Layout:	To be specified
Customisation:	Available

SD Part Number	Description	Qty
SDEC-C9530-#	Subtemporal Cap for head circumference, White, medium elasticity, (CAUCASIAN CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9531-#	Subtemporal Cap for head circumference, White, medium elasticity, (ASIA CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9532-#	Subtemporal Cap for head circumference, Black, medium elasticity, (CAUCASIAN CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9533-#	Subtemporal Cap for head circumference, Black, medium elasticity, (ASIA CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9534-#	Subtemporal Cap for head circumference, White, Soft, high-elasticity fabric, (CAUCASIAN CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9535-#	Subtemporal Cap for head circumference, White, Soft, high-elasticity fabric, (ASIA CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9536-#	Subtemporal Cap for head circumference, Black, Soft, high-elasticity fabric, (CAUCASIAN CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9537-#	Subtemporal Cap for head circumference, Black, Soft, high-elasticity fabric (ASIA CUT) High precision. Includes chin strap (REPLACEMENT CAP) Size #	Each
SDEC-C9525	Measure and Cut Electrode Openings	Each

Refers to size, please see table on page 4

Chest Belts

SD Part Number	Description	Qty
SDEC-C9501	Chest belt set Extra-Small for chest circumference 40-60 cm. Includes 1 chest belt, 2 chin straps	Each
SDEC-C9502	Chest belt set S for EEG caps chest circumference 50-80 cm. Includes: 1 chest belt, 2 chin straps	Each
SDEC-C9503	Chest belt set L for EEG caps chest circumference 75-105 cm. Includes: 1 chest belt, 2 chin straps	Each
SDEC-C9504	Chest belt set X-Large for chest circumference 100-130 cm. Includes: 1 chest belt, 2 chin straps	Each





Individual Electrodes

Active Slim Electrodes

SD Part Number	Description	Lead	Qty
BP-235-2112	actiCAP Slim Active Electrode (GND) for actiCHamp Plus with Ferrit	160cm	Each
BP-235-2110	actiCAP Slim Active Electrode (GND) for actiCHamp, actiCAP, Control Box, LiveAMP 64	160cm	Each
BP-235-2150	actiCAP Slim Active Electrode (GND) for LiveAMP 32	80cm	Each
BP-235-2115	actiCAP Slim Active Electrode (GND) with Samtec connector - Old type	65cm	Each
BP-235-2120	actiCAP Slim Active Electrode (REF) for actiCAP, Control Box, LiveAMP 64	160cm	Each
BP-235-2160	actiCAP Slim Active Electrode (REF) for LiveAMP 32	80cm	Each
BP-235-2125	actiCAP Slim Active Electrode (REF) with Samtec connector - Old type	65cm	Each
BP-235-2100	actiCAP Slim Active Electrode (SIC) for high Profile Splitter Box	150cm	Each
BP-235-2200	actiCAP Slim Active Electrode (SIG) for low-profile Splitter Box	65cm	Pack of 2
BP-235-2205	actiCAP Slim Active Electrode (SIG) for low-profile Splitter Box	150cm	Each



BP-235-2200

BP-235-2110



EEG CAPS & ACCESSORIES

Individual Electrodes

Multitrodes Ring Shape

SD Part Number	Description		Lead	Qty
SDEC-SE9601	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, light-duty Cable Blue, 1.5mm touch-proof safety socket	•	60cm	Each
SDEC-SE9602	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, light-duty Cable Red, 1.5mmt touch-proof safety socket	•	60cm	Each
SDEC-SE9603	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, light-duty Cable Black, 1.5mmt touch-proof safety socket	•	60cm	Each
SDEC-SE9610	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, heavy-duty Cable Blue, 1.5mm touch-proof safety socket	•	60cm	Each
SDEC-SE9611	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, heavy-duty Cable Red, 1.5mm touch-proof safety socket	•	60cm	Each
SDEC-SE9612	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3mm, heavy-duty Cable Black, 1.5mmt touch-proof safety socket	•	60cm	Each
SDEC-SE9613	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3.5mm high, light-duty cable. 1.5mm touch-proof safety socket, Various Colours		150cm	Each
SDEC-SE9625	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3.5mm high, heavy-duty cable. 1.5mm touch-proof safety socket, Various Colours		150cm	Each
SDEC-SE9641	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3.5mm high, heavy-duty cable. 1.5mm touch-proof safety socket, *SPECIFY LEAD LENGTH *SPECIFY COLOUR		_	Each
SDEC-SE9640	Single Multitrode Sintered Ag / AgCl Ring Shape with 6mm-Opening Height 3.5mm high, light-duty cable. 1.5mm touch-proof safety socket, *SPECIFY LEAD LENGTH *SPECIFY COLOUR		-	Each







Multitrodes MR - EMG

SD Part Number	Description	Lead	Qty
BP-370-0030	Single Multitrode MR electrode for EMG, 20kOhm resistor	40cm	Each
BP-370-0033	Pair of Multitrodes MR electrode for EMG, 20kOhm resistor	40cm	Each
BP-370-0037	Single Multitrode MR electrode, 20 kOhm resistor, (custom length) with 1.5 mm touch-proof safety socket; requires liability waiver	Custom	Each
BP-370-0038	Pair of Multitrodes MR electrodes, 20 kOhm resistor, (custom length) with 1.5 mm touch-proof safety socket; requires liability waiver	Custom	Each

BP-370-0030

BP-370-0037

Individual Electrodes

Multitrodes for MEG

SD Part Number	Description	Lead	Qty
SDEC-SE9630	Sintered Ag / AgCl Multitrode for MEG with 6mm opening, 3.0mm high, transparent housing, heavy-duty cable, safety socket (BrainCap TMS replacement Multitrode)	120cm	Each
SDEC-SE9631	Sintered Ag / AgCl Multitrode for MEG with 6mm opening, 3.0mm high, transparent housing, heavy-duty cable, safety socket (BrainCap TMS replacement Multitrode)	150cm	Each
SDEC-SE9632	Sintered Ag / AgCl Multitrode for MEG with 6mm opening, 3.0mm high, transparent housing, light-duty cable, safety socket (BrainCap TMS replacement Multitrode)	120cm	Each
SDEC-SE9633	Sintered Ag / AgCl Multitrode for MEG with 6mm opening, 3.0mm high, transparent housing, light-duty cable, safety socket (BrainCap TMS replacement Multitrode)	150cm	Each

Multitrodes for TMS

SD Part Number	Description	Lead	Qty
SDEC-SE9620	Sintered Ag / AgCl Multitrode for TMS with 6mm opening, 3.0mm high, transparent housing, heavy-duty cable, safety socket (BrainCap TMS replacement Multitrode)	150cm	Each
SDEC-SE9621	Sintered Ag / AgCl Multitrode for TMS with 6mm opening, 3.0mm high, transparent housing, heavy-duty cable, safety socket (BrainCap TMS replacement Multitrode)	200cm	Each
SDEC-SE9622	Sintered Ag / AgCl Multitrode for TMS with 6mm opening, 3.0mm high, transparent housing, light-duty cable, safety socket (BrainCap TMS replacement Multitrode)	150cm	Each
SDEC-SE9623	Sintered Ag / AgCl Multitrode for TMS with 6mm opening, 3.0mm high, transparent housing, light-duty cable, safety socket (BrainCap TMS replacement Multitrode)	200cm	Each



B10 Ring Electrodes

SD Part Number	Description	Lead	Qty
SDEC-SE9660	B10 Ring Electrodes (with a solid Sintered Ag / AgCl pellet) with 1.5mm touch-proof safety socket and heavy-duty lead wire, Various colours	100cm	Each
SDEC-SE9661	B10 Ring Electrodes (with a solid Sintered Ag / AgCl pellet) with 1.5mm touch-proof safety socket and heavy-duty lead wire, Various colours	120cm	Each
SDEC-SE9662	B10 Ring Electrodes (with a solid Sintered Ag / AgCl pellet) with 1.5mm touch-proof safety socket and heavy-duty lead wire, Various colours	150cm	Each
SDEC-C9524	A06 Electrode Holder for Ring Sintered Ag / AgCl Electrode, white		Each



SDEC-SE9660

Electrode Accessories

actiSNAP Holders

SD Part Number	Description	Qty
SDEC-C0500	actiSNAP Holders Set, Light Blue, labeled 1-32 *	Set of 32
SDEC-C0501	actiSNAP Holders Set, White, labeled 1-32 *	Set of 32
SDEC-C0502	actiSNAP Holders Set, Red, labeled 1-32 *	Set of 32
SDEC-C0505	actiSNAP Holders Set, Green, labeled 1-32	Each
SDEC-C0506	actiSNAP Holders Set, Yellow, labeled 1-32	Each
SDEC-C0503	actiSNAP Holder, labeled "REF" *	Each
SDEC-C0504	actiSNAP Holder, labeled "GND" *	Each

* ARTG ID: Investigational use only



Labels

SD Part Number	Description	
SDEC-C9520	Labels for actiCAP Holders, 1-32 Green (32 pieces) *	Set of 32
SDEC-C9521	Labels for actiCAP Holders, 1-32 Yellow (32 pieces) *	Set of 32
SDEC-C9522	Labels for actiCAP Holders, 1-32 Black (32 pieces) *	Set of 32
SDEC-C9523	GND Label for actiCAP Holder, Coloured *	Each
SDEC-AS0001	Label on lead wire	Each

* ARTG ID: Investigational use only

Ear Clips for actiCAP / actiCAP Slim

SD Part Number	Description	Qty
SDEC-C9541	Ear Clips, Pair of Nihon-Kohden with fitting Electrodes (please state requested length of electrode cables)	Pair
SDEC-C9542	Ear Clip Adapter for actiCAP Slim	Each
SDEC-C9543	Ear Clips, Pair of Nihon-Kohden	Pair
SDEC-C9544	Ear Clamps, Pair	Pair
SDEC-C9545	Ear Clamps, Pair, with Ag / AgCl Sintered Electrodes	Pair



SDEC-C9542 Ear Clip Adapter for actiCAP Slim

Individual Electrodes

Tin Electrodes

SD Part Number	Description	Lead (cm)	Qty
SDEC-SE9681	Tin Electrode, cap-suited, with 6mm center hole. Heavy-duty lead wire and 1.5mm touch-proof safety socket	150cm	Each
SDEC-SE9682	Tin Electrode, cap-suited, with 2mm center hole, For use with blunted needle. Heavy-duty lead wire and 1.5mm touch-proof safety socket		Each
	,	* ARTG ID: Investigatio	nal use only
	SDEC-SE9681		

Active Fast'n'Easy Electrodes

SD Part Number	Description	Lead	Qty
SDEC-SE9650	Active Fast'n Easy Electrode with individual connector, number label at both ends	1.0m	Each
SDEC-SE9651	Active Fast'n Easy (REF) Electrode with individual connector, label at both ends		Each
SDEC-SE9652	Active Fast'n Easy (GND) Electrode, single connector, label at both ends	1.0m	Each



Fast'n Easy Electrode

Active Electrode Mini Headbox

SD Part Number	Description	
SDEC-AS0016	Active Electrode Mini Headbox & Power Supply Inputs for 6 Ch. & REF & GND, incl. 9V-accuClator, acc. to "AEM-HB-6U.doc"	Kit
SDEC-AS0017	Active Electrode Mini Headbox & Power Supply Inputs for 12 Ch. & REF & GND, incl. 9V-accuClator, acc. to "AEM-HB-12U.doc"	Kit
SDEC-AS0018	Active Electrode Mini Headbox & Power Supply Inputs for 16 Ch. & REF & GND, incl. 9V-accuClator, acc. to "AEM-HB-16U.doc"	Kit
SDEC-AS0015	Active Electrode Mini Headbox & Power Supply Inputs for 4 Ch. & REF & GND, incl. 9V-accuClator, acc. to "AEM-HB-4U.doc"	Kit
SDEC-AS0014	Battery Charger for 9V, AA, AAA	Each



SDEC-AS0014

SIGGI-II Impedance Meter, Signal Generator, Data Logger, Electrode Tester

SIGGI-II can issue AC- and DC-signals, measure impedances, record and replay physiologic signals and measure electrode potentials for up to 6 hours.

SD Part Number	Description	Qty
SG2	SIGGI-2 Signal Generator, Impedance Meter Amplifier with Data Logger, Electrode Tester - Itnl. Version	Kit
SG2-KALIB	Calibration SIGGI-2 incl. Calibration Certificate	Each

SIGGI II is a laboratory tool for checking your amplifier in the event of a possible faulty channel. Most amplifier calibration signals are typically generated inside the software and cannot check fidelity from the electrode input location through to the digitization phase. This device provides an external electrical signal in the voltage range of typical biophysiological signals, which checks the entire analogue signal generated from electrode input through the hardware to the point of transduction and digitization.

• **Signal Generator**: The calibrated Signal Generator, issuing both built-in and recorded signals onto 1-32 channels (accompanied by a trigger signal), can be used to verify an amplifier's ability to correctly record amplitudes and frequencies, to visualize filter characteristics, to check linearity of DC amplifiers and to check Common Mode Rejection (CMR).

• **Impedance Meter**: The Impedance Meter measures the impedance between 1-32 electrodes and their reference and ground electrodes. Special custom adaptors for any EEG-Recording Cap/electrode input box can be supplied. This is a comfortable way to measure impedances independent from the EEG amplifier or if there are reasons to doubt the impedance measurement routines built into the respective amplifier.

• **Amplifier / Data Logger**: The Amplifier/Data Logger can record, amplify and store user specific signals and replay them with the Signal Generator. The Electrode Tester measures the electrode potential of 1-32 electrodes and its changes for up to 6 hours. This unique tool is indispensable for assessing the suitability of individual electrodes for DC recordings.

Electrode Tester



LabSim, A signal generator to simplify troubleshooting

LabSim is a small and handy signal generator, able to generate signals required to test the input ports of different amplifiers. With LabSim, it is possible to test an amplifier's EEG, AUX, and trigger connectors as well as functionality of the complete signal pipeline including electrodes and amplifier.

- Simplifies troubleshooting by using a reliable signal source
- Allows checking all channels (EEG, AUX, trigger) at once

• Allows inspection of the complete signal pathway, e.g. in preparation of a large-scale study or as a regular checkup in large labs The ability to test these connectors without additional equipment, such as secondary electrode bundles or sensors, allows for more precise and efficient troubleshooting. Minimizing down time comes with efficiency.

The LabSim is compatible with most of our amplifier families. actiCHamp, BrainAmp, V-Amp, LiveAmp Sensor and Trigger Extension and TriggerBox are amongst the compatible devices.

SD Part Number	Description	Qty
LABSIM	Signal Generator	Each



EEG CAPS & ACCESSORIES

Boards, Meters, Adaptors



Input Boards, Connector, Adaptors

Input Boards, connector, Adaptors		
Description	Qty	
38 Channel Input box - Universal Connectors to any amplifier with single electrode inputs	Each	
38 Channel Electrode board adaptor Universal Connectors to any amplifier with single electrode inputs	Each	
32-Channel-Electrode Input Box for BrainAmp	Each	
64-Channel-Electrode Input Box for BrainAmp Switchable between single inputs and cap-connector	Each	
BrainAmp Flat Ribbon Cable; (# = wildcard for length in cm) for length up to 30cm / length 31-150cm	Each	
Universal Converter, 32 Channels from BrainAmp connector / EIB (with flat ribbon cable) to 32 + 21.5mm touch-proof safety sockets	Each	
Universal Converter, 32 Channels from TMSI/QuickAmp/ANT to EIB (with flat ribbon cable) to 32 + 21.5mm touch-proof safety sockets	Each	
50pin cap to EGI amp adapter 128, for 128 channel BrainCap, R-Nets for BrainAmp or actiCAP via ControlBox to EGI Amplifier (HydroCel GSN assignment)	Each	
50pin cap to EGI amp adapter 64, for 64 channel BrainCap, R-Nets for BrainAmp or actiCAP via ControlBox to EGI Amplifier (HydroCel GSN assignment)	Each	
Universal Connector Adaptor, 32Ch For TinCap	Each	
Adaptor for SynAmp 2/RT: 64 Channels, from 2x P50 Connector (EIB64, EIB64-A) to SynAmp 2/RT Inputs, (80-pol. Connector)	Each	
	38 Channel Input box - Universal Connectors to any amplifier with single electrode inputs 38 Channel Electrode board adaptor Universal Connectors to any amplifier with single electrode inputs 32-Channel-Electrode Input Box for BrainAmp 64-Channel-Electrode Input Box for BrainAmp Switchable between single inputs and cap-connector BrainAmp Flat Ribbon Cable; (# = wildcard for length in cm) for length up to 30cm / length 31-150cm Universal Converter, 32 Channels from BrainAmp connector / EIB (with flat ribbon cable) to 32 + 21.5mm touch-proof safety sockets Universal Converter, 32 Channels from TMSI/QuickAmp/ANT to EIB (with flat ribbon cable) to 32 + 21.5mm touch-proof safety sockets 50pin cap to EGI amp adapter 128, for 128 channel BrainCap, R-Nets for BrainAmp or actiCAP via ControlBox to EGI Amplifier (HydroCel GSN assignment) 50pin cap to EGI amp adapter 64, for 64 channel BrainCap, R-Nets for BrainAmp or actiCAP via ControlBox to EGI Amplifier (HydroCel GSN assignment) Universal Connector Adaptor, 32Ch For TinCap Adaptor for SynAmp 2/RT: 64 Channels, from 2x P50 Connector (EIB64, EIB64-A)	





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Symbiotic Devices

Provides scientists and researchers access to the tools and support they need to achieve their goals in neuroscience.

NOTES	EEC CAPS &
	EEG CAPS & ACCESSORIES



The actiCHamp Plus is a scalable and flexible solution for laboratory EEG recordings. It can be combined with all active as well as passive electrode system.

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.



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