



High-quality **Single-use & Reusable** Medical Devices
for **Sleep Diagnostics** and **Clinical Neurophysiology**



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WHAT WE DO

CNSAC is a manufacturer of disposables and consumables for sleep diagnostics and neurology.

Our products are developed and optimized based on years of exchange with our customers from clinics and hospitals in Germany.

CNSAC products are registered worldwide in different countries including CE (Europe), FDA (USA), TGA (Australia), MFDS (Korea), TFDA (Taiwan), PMDA (Japan) and Canada.

Our portfolio includes the following product groups:

- Adhesive conductive EEG pastes & EEG creams
- EEG cup electrodes (reusable and disposable)
- Nasal and nasal/oral cannulas for sleep diagnostics and sleep therapy
- CPAP adapters and filters for sleep therapy
- Adhesive surface electrodes for ECG, EMG and PLM
- Customized products



Routine EEG
(20-30 minutes)

Sleep EEG (PSG)
(up to 10 hours)



low impedance cream lic2®

Product properties:

- Self-adhesive
- Easy to remove
- Significant improvement of the electrode impedance
(Comparison of 34 PSG measurements;
number of samples N = 132, T-test with $p < 0,05$)

Routine & sleep EEG

EEG measurements up to 10 hours

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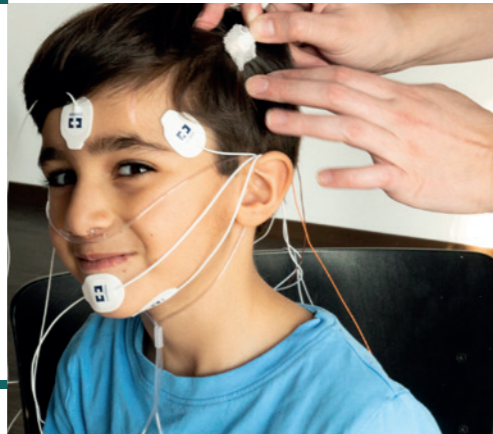
2 in 1

adhesive conductive paste

adhesion & conduction with a single
paste in just one working step!

To be used in combination with:

- Reusable EEG gold cup electrodes
- Reusable EEG silver/silver chloride (Ag/AgCl) cup electrodes
- Reusable EEG silver cup electrodes
- Disposable EEG cup electrodes



Long-term EEG
(1-5 days recordings)

For allergic patients &
patients with sensitive skin



EEG adhesive conductive paste (EEG-acp)

Product properties:

- Good adhesive strength & short drying time
- Excellent signal stability
- Economical in the application
- No residues on the skin
- More convenient for patients

■ As a good alternative to **COLLODION**
for long-term EEG monitoring:

- Odor-free
- Non-flammable
- Water-soluble

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Lic2 Electrode Cream

Description

Lic2® is an adhesive and conductive cream to stick cup electrodes on the scalp during routine-EEG and PSG

Item number

CR-004c

Advanced properties:

- Self-adhesive
- Excellent impedance value and stability
- Easy to remove
- Recordings up to 10 hours
- 10 x 100 g tubes



EEG-acp Adhesive Conductive Paste

Description

EEG-acp® is an adhesive and conductive paste to stick cup electrodes on the scalp during PSG and long-term EEG

Item number

CR-050c

Advanced properties:

- Self-adhesive
- Excellent impedance value and stability
- Easy to remove
- Recordings up to 5 days
- 10 x 100 g tubes



CNSAC GOLD CUP ELECTRODES, REUSABLE

Application: EEG, PSG, LTM, EMG, ECG, EOG and EP



- Advanced properties:**
- Highly flexible wire for easy application, cleaning and disinfection
 - 10 µm 24 Carat gold coating to ensure more durability
 - Optimized long-lasting 1.5 mm DIN42802 connector for a longer lifetime
 - 10 mm cup diameter
 - Different cable lengths in 10 assorted colors
 - 1 mm hole allows gel to escape during positioning and permits blunt needle insertion
 - Can be used with most popular gels, pastes and adhesives

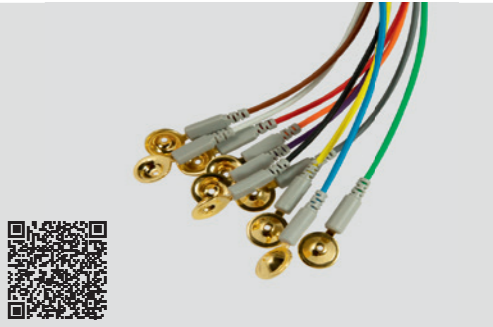
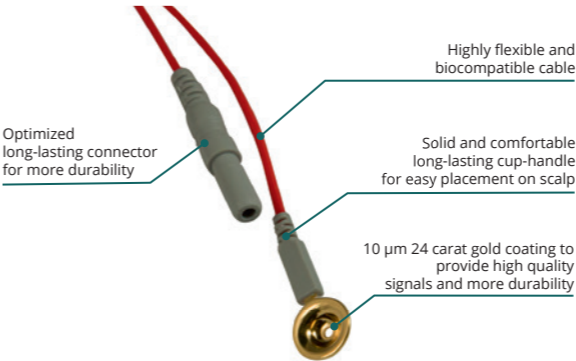
Specification Data	
Diameter of cup	10 mm
Height of cup	2.8 mm
Lead-free	✓
Latex-free	✓
BPA-free lead wire	✓
DEHP-free lead wire	✓
RoHS compliant	✓
Lead wire insulation	Biocompatible TPU
Lead wire core	Kevlar
Electrode	10 µm gold coating of copper inside
Connector	DIN 42802 (1.5 DIN)
Connector material	Medical grade PVC

CNSAC Gold Cup Electrodes are compatible with all medical devices with a 1.5 mm input socket including:

- Compumedics
 - Löwenstein Medical
 - Grass
 - NicoletONE
- Embla
 - Cadwell
 - Xltek
 - Nihon Kohden
- SOMNOmedics
 - Bio-logic
 - Lifelines
 - Respirationics
- Natus
 - Teca Nervus
 - Nicolet
 - ResMed
 - MicroMed

CNSAC GOLD CUP ELECTRODES, REUSABLE

Cable length	Item number
75 cm (30"), 10 pcs.	CE-070c
100 cm (40"), 10 pcs.	CE-073c
150 cm (60"), 10 pcs.	CE-071c
200 cm (80"), 10 pcs.	CE-074c
250 cm (98"), 10 pcs.	CE-072c



CNSAC SILVER/SILVER CHLORIDE (AG/AGCL) CUP ELECTRODES, REUSABLE

Application: Electroencephalography (EEG), Polysomnography (PSG), long-term EEG monitoring (LTM), Electromyography (EMG), Electrocardiography (ECG), Electrooculography (EOG) and evoked potential (EP)



Advanced properties:

- Highly flexible wire for easy application, cleaning and disinfection
- Advanced silver/silver chloride sensor ensures high signal quality
- Optimized long-lasting 1.5 mm DIN42802 connector for a longer lifetime
- 10 mm cup diameter
- 2 mm hole allows gel to escape during positioning and permits blunt needle insertion
- Different cable lengths in 10 assorted colors
- Can be used with most popular gels, pastes and adhesives

Specification Data	
Diameter of cup	10 mm
Height of cup	2.8 mm
Lead-free	✓
Latex-free	✓
BPA-free lead wire	✓
DEHP-free lead wire	✓
RoHS compliant	✓
Lead wire insulation	Biocompatible TPU
Lead wire core	Kevlar
Electrode	Silver plated with silver chloride
Connector	DIN 42802 (1.5 DIN)
Connector color	Grey
Connector material	Medical grade PVC

CNSAC Reusable Silver/Silver chloride (Ag/AgCl) Electrodes are compatible with all medical devices with a 1.5 mm input socket including:

- Compumedics
 - Löwenstein Medical
 - Grass
 - NicoletONE
- Embla
 - Cadwell
 - Xitek
 - Nihon Kohden
- SOMNOmedics
 - Bio-logic
 - Lifelines
 - Respirationics
- Natus
 - Teca Nervus
 - Nicolet
 - ResMed
 - MicroMed

CNSAC SILVER/SILVER CHLORIDE (AG/AGCL) CUP ELECTRODES, REUSABLE

Cable length	Item number
75 cm (30"), 10 pcs.	CE-150c
100 cm (40"), 10 pcs.	CE-151c
150 cm (60"), 10 pcs.	CE-152c
200 cm (80"), 10 pcs.	CE-153c
250 cm (98"), 10 pcs.	CE-154c



CNSAC DISPOSABLE SILVER/SILVER CHLORIDE (AG/AGCL) CUP ELECTRODES

Application: Electroencephalography (EEG), Polysomnography (PSG), long-term EEG monitoring (LTM), Electromyography (EMG), Electrocardiography (ECG), Electrooculography (EOG) and evoked potential (EP)



- Advanced properties:**
- Highly flexible and biocompatible wire
 - Advanced silver/silver chloride sensor ensures high signal quality
 - 10 mm cup diameter
 - 1.5 mm female DIN42802 connector
 - 1.6 mm hole allows gel to escape during positioning and permits blunt needle insertion
 - 10 assorted colors:
 - 2 x white 3 x red
 - 2 x black 3 x blue
 - 2 x purple 3 x yellow
 - 2 x grey 3 x green
 - 2 x brown 3 x orange
 - Different cable lengths
 - Eliminates the risk of cross-contamination

CNSAC Disposable Silver/Silver Chloride (Ag/AgCl) Cup Electrodes are compatible with all medical devices with a 1.5 mm input socket including:

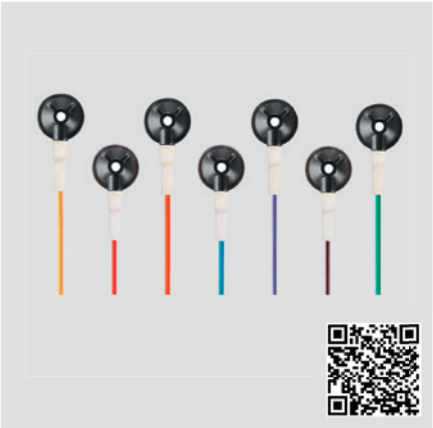
- | | | | |
|----------------------|----------------|------------------|---------------|
| ▪ Compumedics | ▪ Embla | ▪ SOMNOmedics | ▪ Natus |
| ▪ Löwenstein Medical | ▪ Cadwell | ▪ Bio-logic | ▪ Teca Nervus |
| ▪ Grass | ▪ Xltek | ▪ Lifelines | ▪ Nicolet |
| ▪ NicoletONE | ▪ Nihon Kohden | ▪ Respirationics | ▪ ResMed |
| | | | ▪ MicroMed |

CNSAC DISPOSABLE SILVER/SILVER CHLORIDE (AG/AGCL) CUP ELECTRODES

Description	Item number
CNSAC Disposable Ag/AgCl Cup Electrodes, 100 cm (40"), 25 pcs.	CE-169

Description	Item number
CNSAC Disposable Ag/AgCl Cup Electrodes, 75 cm (30"), 25 pcs.	CE-170

Description	Item number
CNSAC Disposable Ag/AgCl Cup Electrodes, 150 cm (60"), 25 pcs.	CE-171



CNSAC NASAL AND NASAL/ORAL CANNULAS FOR SLEEP DIAGNOSTICS

Application: Polysomnography (PSG) and Polygraphy (PG)



Advanced properties:

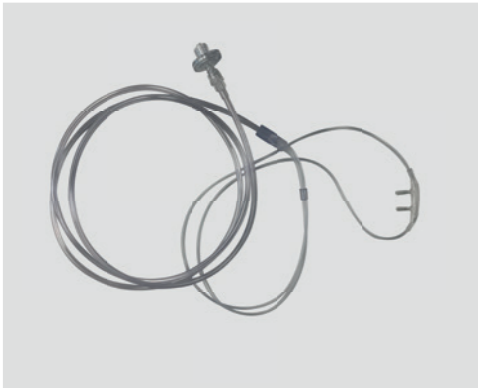
- Innovative design to provide easy application
- Optimized nasal prongs and tubing to ensure uniform high signal quality
- Soft nasal prongs provide maximum wearing comfort during PSG
- Universal (male) Luer-Lock connector, (female) Luer-Lock connector or NOX compatible filter
- Individually packed in pre-cut bags for easy application in clinics and hospitals
- DEPH and latex free

CNSAC Nasal Cannulas with integrated filter

Connector: (Male) Luer-Lock

Advanced properties:

- Hydrophobic filter to protect transducer from moisture and bacteria
- Packed together as single use product to eliminate the risk of contamination



Description	Item number
Nasal Cannula for Dynamic Pressure Measurement with Filter, 60 cm (24") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002f
Nasal Cannula for Dynamic Pressure Measurement with Filter, 210 cm (83") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002/210f

CNSAC NASAL AND NASAL/ORAL CANNULAS

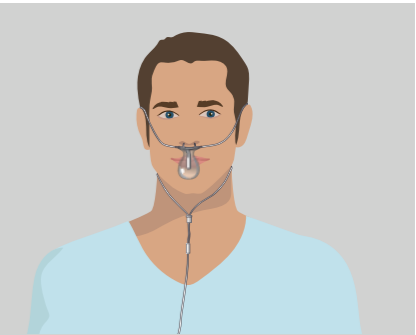
Connector: (Male) Luer-Lock



Description	Item number
Nasal/Oral Cannula for Pressure Sensor, 60 cm (24") tubing with (male) Luer-Lock connector, 100 pcs.	NC-007c
Nasal/Oral Cannula for Pressure Sensor, 180 cm (71") tubing with (male) Luer-Lock connector, 50 pcs.	NC-017c



Description	Item number
Nasal Cannula, adults, 30 cm (12") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002/30c
Nasal Cannula, adults, 60 cm (24") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002c
Nasal Cannula, adults, 150 cm (60") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002/150c
Nasal Cannula, adults, 210 cm (83") tubing with (male) Luer-Lock connector, 100 pcs.	NC-002/210c



CNSAC NASAL CANNULAS

Connector: (Female) Luer-Lock or NOX connector



Advanced properties:

- Soft nasal prongs provide maximum wearing comfort
- Filter and nasal cannulas are packed together (1 set/bag)
- Latex and DEHP free

Description	Item number
Nasal Cannula including filter connector compatible with NOX, 60 cm (24") tubing, 100 pcs.	NC-130
NOX compatible adapter for Nasal Cannulas, 50 pcs.	NC-114



Description	Item number
Nasal Cannula, adults, 60 cm (24") tubing with (female) Luer-Lock connector, 25 pcs.	NC-050
Nasal Cannula, adults, 210 cm (83") tubing with (female) Luer-Lock connector, 25 pcs.	NC-055

CNSAC PEDIATRIC NASAL AND NASAL/ORAL CANNULAS

Connector: (Male) Luer-Lock

Advanced properties:

- Optimized nasal prongs for different ages (newborn and pediatric)
- Optimized design (nasal prongs and tubing quality) for a reliable signal recording during pediatric sleep diagnostics
- Soft nasal prongs for high wearing comfort during PSG
- Universal (male) Luer-Lock connector

Description	Item number
Nasal Cannula for Newborn (up to 10 months), distance between nasal prongs 7.6 mm, 180 cm tubing, with (male) Luer-Lock connector, 25 pcs. per pack	NC-020
Nasal Cannula for Pediatric (from 1 year on), distance between nasal prongs 9.1 mm, 180 cm tubing, with (male) Luer-Lock connector, 25 pcs. per pack	NC-021
Nasal/Oral Cannula for Pediatric (from 1 year on), 180 cm tubing, with (male) Luer-Lock connector 10 pcs. per pack	NC-028



CNSAC pediatric nasal and nasal/oral cannulas combine both wearing comfort and signal sensitivity for reliable diagnostics.



FILTER AND CPAP ADAPTER FOR SLEEP DIAGNOSTICS

Application: Polysomnography (PSG) and Polygraphy (PG)



Description	Item number
Anti-Microbial Filter with (female/male) Luer-Lock connector, 25 pcs.	NC-113c
Name:	0.2 Micron (2 µm) Hydrophob Filter
Intended use:	Hydrophobic filter to protect transducer from moisture and bacteria
Area of use:	Sleep diagnostic clinics, hospitals and medical clinics



Description	Item number
Adapter for nasal cannulas with integrated filter, compatible with NOX, 50 pcs.	NC-114
Name:	NOX compatible adapter including filter for nasal cannulas
Intended use:	Hydrophobic filter to protect transducer from moisture and bacteria
Area of use:	Sleep diagnostic clinics, hospitals and medical clinics

FILTER AND CPAP ADAPTER FOR SLEEP DIAGNOSTICS

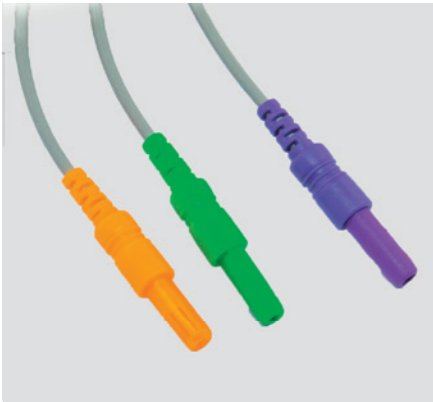
Name:	CPAP adapter with tube, with (male) Luer-Lock connector
Intended use:	CPAP adapter with tube is intended for single use between CPAP equipment and single port sleep data recorders to provide a means to detect respiratory airflow during CPAP titration
Area of use:	Sleep diagnostic clinics, hospitals, medical clinics and homecare

Description	Item number
CPAP adapter including 80 cm PVC tube, 100 pcs.	TA-001/80
CPAP adapter including 200 cm PVC tube, 100 pcs.	TA-001/200
CPAP adapter including 80 cm silicone tube, 100 pcs.	TA-001/Kc



CNSAC SNAP BUTTON CABLES

Application: Electroencephalography (EEG), Polysomnography (PSG), Periodic Limb Movement (PLM), Electro-cardiography (ECG), Electrooculography (EOG) and evoked potential (EP)



- Advanced properties:**
- Flat design for more patient comfort during sleep
 - Long-lasting DIN 1.5 mm connector for more durability
 - Highly flexible biocompatible TPU wire
 - Various cable lengths

The snap button cables can be used for all electrodes with snap fastener (ECG electrodes, EEG electrodes, PLM electrodes, etc.).



CNSAC SNAP BUTTON CABLES

Description	Item number
80 cm (32"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-001c
100 cm (40"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-020c
150 cm (60"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-021c
200 cm (80"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-022c
250 cm (98"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-023c
300 cm (118"), 1.5 mm DIN connector, 10 pcs, assorted colors	AE-024c



CNSAC ADHESIVE ELECTRODES FOR ECG AND PLM

Disposable Electrode



Description	Item number
<ul style="list-style-type: none">For PLM and ECGSilver-Silver chloride (Ag/AgCl)Self-adhesive (solid gel)Size 28 x 45 mmWith snap fastener30 pcs.	DE-008c

Disposable Doublepatch Electrode



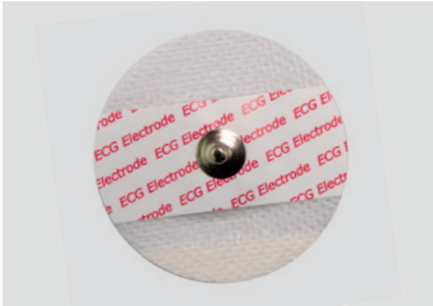
Description	Item number
<ul style="list-style-type: none">For Intercostal EMG, ECG and PLMSilver-Silver chloride (Ag/AgCl)Self-adhesive (solid gel)Size 35 x 55 mmWith snap fastener20 pcs.	DE-009c

CNSAC ADHESIVE ELECTRODES FOR ECG AND PLM

Description	Item number
<ul style="list-style-type: none">ECG electrodeFoamSilver-silver chloride (Ag/AgCl)Self-adhesive (solid gel)Size Ø 30 mmWith snap fastener30 pcs.	DE-220



Description	Item number
<ul style="list-style-type: none">ECG electrodeFleece textileSilver-silver chloride (Ag/AgCl)Self-adhesive (solid gel)Size Ø 50 mmWith snap fastener30 pcs.	DE-221



CNSAC CUSTOM PRODUCTS AND PRIVATE LABEL MANUFACTURING



One of the main focuses of CNSAC® is **Private Label Manufacturing** of high-quality medical devices including product approval according to the international regulatory standards such as ISO13485 and MDR.

This is not only limited to adaptations of our standard product to different devices and applications, but also development of new products in close cooperation with our bulk customers.



Armed with years of experience in developing single-use and reusable medical devices, combined with an optimized worldwide supply chain for raw materials, CNSAC® is able to provide a **fast** and **cost-effective solution** for our customers in form of private label products.

The advantages of CNSAC® solution for **Private Label Manufacturing**:

- Speedy development of new products
- Short product approval time
- Price competitiveness

CUSTOMIZED PRODUCTS FOR SLEEP DIAGNOSTICS, CARDIOLOGY AND NEUROLOGY





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We are certificated according to

Zertifiziertes
QM-System

ISO 13485

