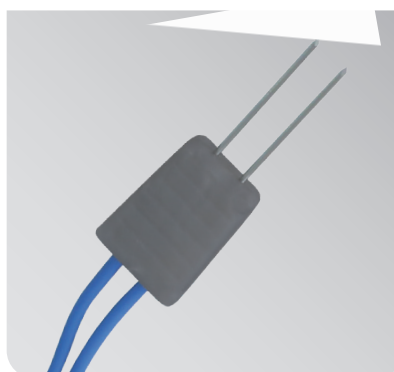
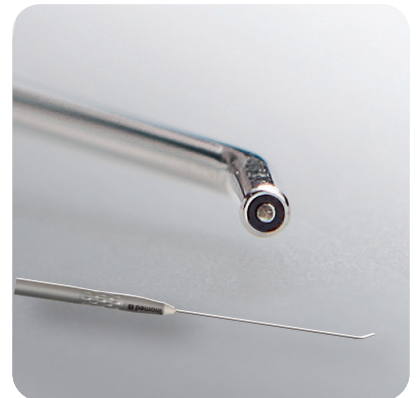
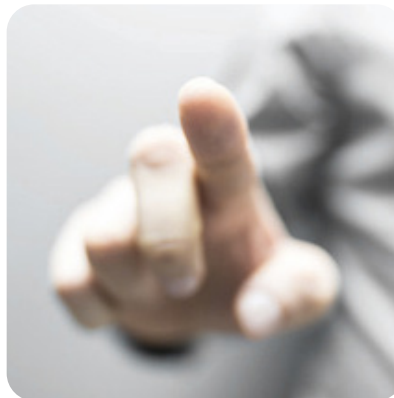




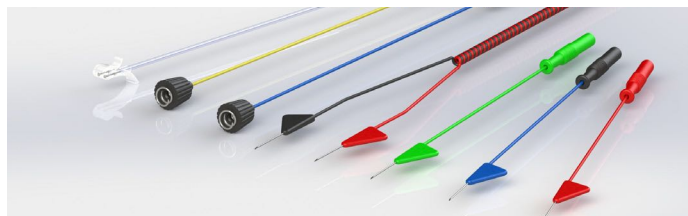
Intraoperative Neuromonitoring
Functional Neurosurgery
Pain Treatment
Neurological Diagnostics

IONM Accessories



**Intraoperative
Neuromonitoring
Accessories**

**Electrodes
Probes
New accessories
Application examples**



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» Innovations and Bestsellers



» Double Needle » page 8

- › Reliable signal detection of motoric cranial nerves
- › Quick and precise application due to the placement of two needles at the same time thanks to one common handpiece
- › Pre-defined needle distance
- › Twisted cables

» Mapping Suction Probe » page 29

- › Subcortical mapping with synchronous suction
- › Simplified maximal tumor removal
- › No change of instruments during procedure



» C2 Xplore » page 50

Simplification by digitalisation and automation

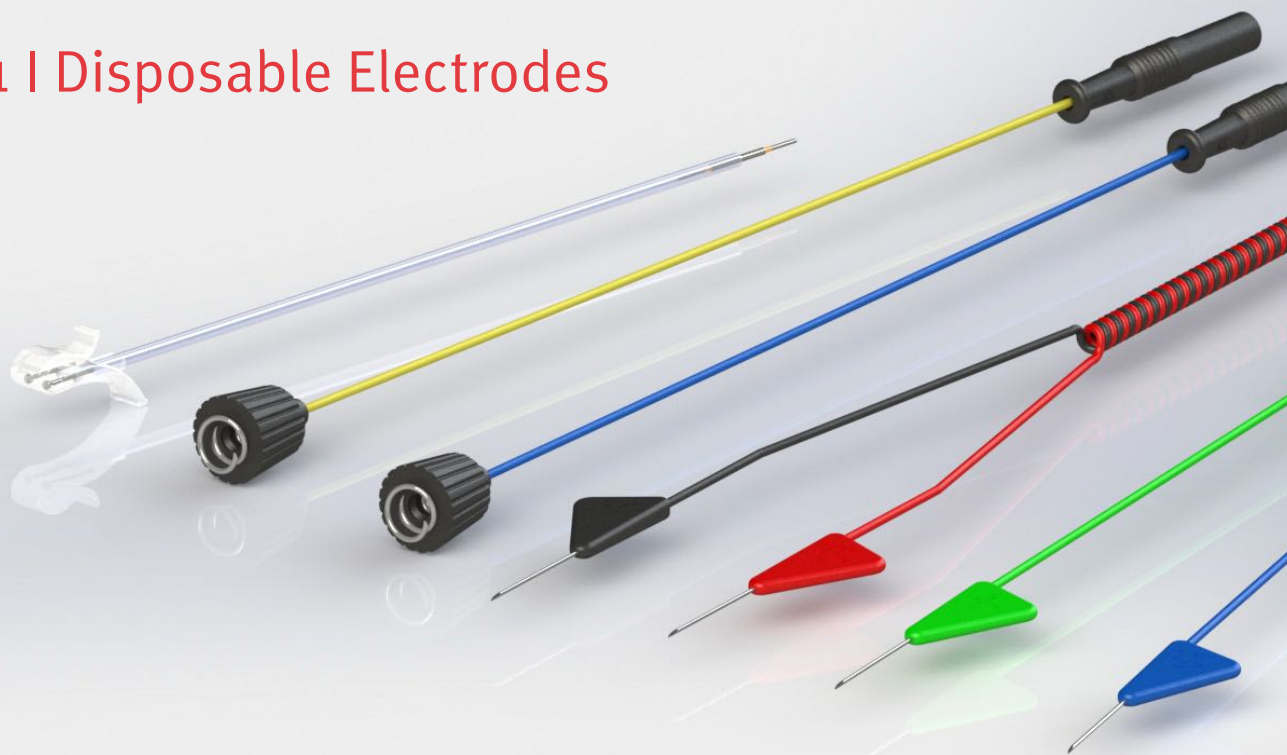
- › The ultimate in user-friendliness
- › Flexibility for cost-effectiveness
- › Maximum interconnection – Inside and outside the OR
- › Broaden your knowledge and connect with international experts

» pIOM Set » page 44

- › All accessories in one set – also available for non-invasive recording
- › Intuitive short instruction for easy handling
- › Pioneer in pelvic monitoring – more than twelve years of research: improved patient safety and quality of life thanks to neuromonitoring of autonomic nerves!



1 | Disposable Electrodes



Electrodes

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Subdermal Needle Electrodes (SDN electrodes) allow an easy and reliable recording of EMG signals.

inomed Medizintechnik GmbH offers a variety of electrodes in different shapes and lengths for different applications.

The SDN electrodes have a 1.5 mm touchproof connector.

The electrodes are sterilized with EO and for single use only.

1.1

Subdermal Needle Electrodes (SDN Electrodes)

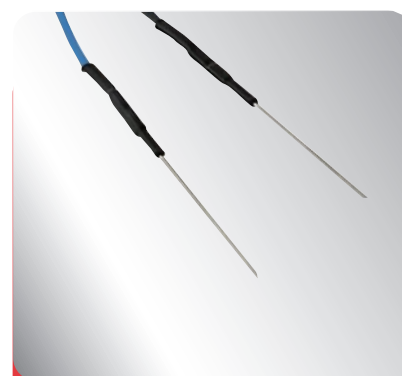
1.1.1

SDN Electrodes Slimline



SDN Electrode **Slimline**

Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



SDN Electrodes **Slimline**

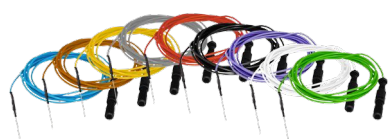
Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



Art. No.	mm		
533 621	15 mm	1.0 m	Blue
533 622	15 mm	1.0 m	Brown
533 623	15 mm	1.0 m	Yellow
533 624	15 mm	1.0 m	Grey
533 626	15 mm	1.0 m	Red
533 627	15 mm	1.0 m	Black
533 628	15 mm	1.0 m	Purple
533 629	15 mm	1.0 m	White
533 625	15 mm	1.0 m	Green
533 651	20 mm	1.5 m	Green
533 653	20 mm	3.0 m	Green



Art. No.	mm		
533 631	15 mm	1.0 m	Blue/Black
533 633	15 mm	1.0 m	Yellow/Black
533 634	15 mm	1.0 m	Grey/Black
533 638	15 mm	1.0 m	Purple/Black
533 636	15 mm	1.5 m	Red/Black
533 637	15 mm	2.0 m	Red/Black
533 656	20 mm	1.5 m	Red/Black
533 657	20 mm	2.0 m	Red/Black
533 658	20 mm	2.0 m	Blue/Black
533 671	30 mm	2.0 m	Red/Black
533 675	40 mm	2.0 m	Red/Black
Sets > next page			Blue/Black, Yellow/Black, Grey/Black



1 | Disposable Electrodes

1.1.1 SDN Electrodes Slimline



SDN Electrodes **Slimline Trio**

Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



Art.
No.

mm

mm

533 641 15 mm 1.5 m

533 661 20 mm 1.5 m

1.1.1 SDN Electrodes Slimline Sets



SDN Electrodes **Slimline Set**

Ø = 0.45 mm
single use only,
EO sterilized
10 colourful electrode pairs



Art.
No.

mm

mm

533 646 15 mm 2.0 m

533 666 20 mm 2.0 m



1.1

Subdermal Needle Electrodes (SDN Electrodes)

1.1.2

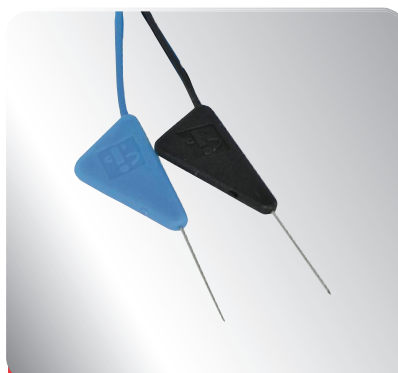
SDN Electrodes Trigon

SDN Electrode **Trigon**

Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



532 621	15 mm	1.0 m	●
532 622	15 mm	1.0 m	●
532 623	15 mm	1.0 m	●
532 624	15 mm	1.0 m	●
532 626	15 mm	1.0 m	●
532 627	15 mm	1.0 m	●
532 628	15 mm	1.0 m	●
532 629	15 mm	1.0 m	○
532 625	15 mm	1.0 m	●
532 651	20 mm	1.5 m	●
532 653	20 mm	3.0 m	●
532 654	20 mm	3.0 m	●

SDN Electrodes **Trigon**

Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



532 631	15 mm	1.0 m	●
532 633	15 mm	1.0 m	●
532 634	15 mm	1.0 m	●
532 638	15 mm	1.0 m	●
532 636	15 mm	1.5 m	●
532 637	15 mm	2.0 m	●
532 656	20 mm	1.5 m	●
532 657	20 mm	2.0 m	●
532 671	30 mm	2.0 m	●
532 675	40 mm	2.0 m	●

SDN Electrodes **Trio Trigon**

Ø = 0.45 mm
single use only,
EO sterilized
Unit 10



532 641	15 mm	1.5 m	●
532 661	20 mm	1.5 m	●

1 | Disposable Electrodes

1.1

Subdermal Needle Electrodes (SDN Electrodes)

1.1.2

SDN Electrodes Trigon



SDN Electrodes Trigon Set

$\varnothing = 0.45 \text{ mm}$
single use only, EO sterilized
10 colourful electrode pairs



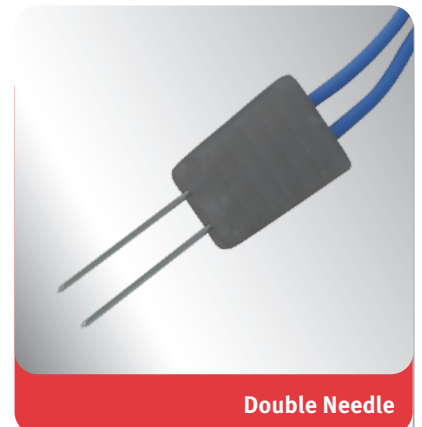
532 646 15 mm 2.0 m

532 666 20 mm 2.0 m



1.1.3

Double Needle Channel Sets



Double Needle

2-Channel Set / 4-Channel Set / Colourful Set
Needle length: 12 or 18 mm,
Needle distance: 2.5 mm,
single use only,
EO sterilized
Unit 15 or 20



Double needle channel sets

Art. No.	 mm		Unit	Application	
2 channel with 5 SDN electrodes green (15 mm/1.5 m)					
534 641	12 mm	1.5 m	15	for 5	5x  + 5x 
534 671					5x  + 5x 
2 channel with 5 SDN electrodes green (15 mm/1.5 m) and SDN counter electrode red (20 mm/3 m)					
534 673	12 mm	1.5 m	20	for 5	5x  + 5x  + 5x 
4 channel with 4 SDN electrodes green (15 mm/1.5 m)					
534 643	12 mm	1.5 m	20	for 4	4x    + 4x 
Coloured double needle channel set					
534 645	12 mm	1.5 m	20	colourful set	4x    
534 646	18 mm				



1.1.4 SDN Hooked Electrodes



SDN Hooked Electrodes Set

$\varnothing = 0.45 \text{ mm}$, 35°
single use only,
EO sterilized
10 colourful electrode pairs



Art.
No.

mm



532 730

30 mm

1.5 m



1.1.5 SDN Pediatric Electrodes



SDN Pediatric Electrodes

$\varnothing = 0.35 \text{ mm}$
single use only,
EO sterilized
Unit 10



Art.
No.

mm



532 720

6 mm

1.5 m



SDN Pediatric Electrodes

$\varnothing = 0.35 \text{ mm}$
angled 90° ,
needle insulated,
3 mm blunt tip,
single use only,
EO sterilized
Unit 10



Art.
No.

mm



532 722

12 mm

1.5 m



1 | Disposable Electrodes

1.1 Subdermal Needle Electrodes (SDN Electrodes)

1.1.6 Insulated SDN Electrodes



Insulated SDN Electrodes

needle insulated,
 $\varnothing = 0.45 \text{ mm}$,
 2 mm blunt tip,
 single use only,
 EO sterilized
Unit 10

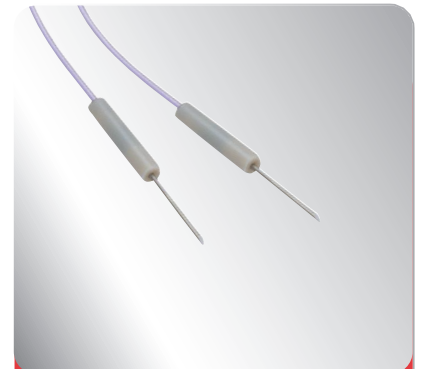


Art. No.	mm	
530 683	15 mm	2.0 m



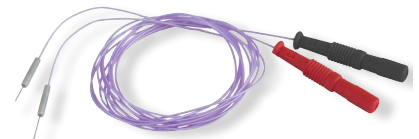
530 680	25 mm	1.2 m
----------------	-------	-------

1.1.7 SDN Electrodes for Cranial Nerves

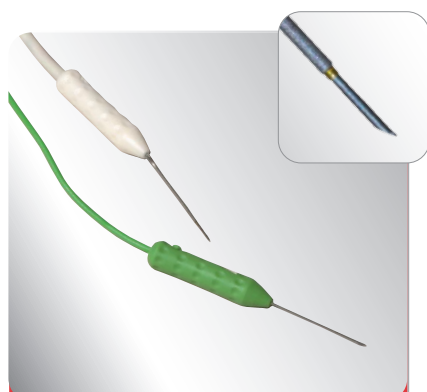


SDN Electrodes for Cranial Nerves

for hypoglossal nerve/
 glossopharyngeal nerve/vagus nerve
 needle $\varnothing = 0.45 \text{ mm}$,
 for application with
 Vocalis Electrode Applicator (530 121),
 single use only, EO sterilized
Unit 10

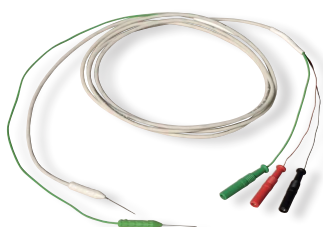


Art. No.	mm		
532 609	9 mm	1.5 m	○ ○
532 610	9 mm	1.5 m	● ●
532 611	9 mm	1.5 m	● ●



Electrode for Vocal Musle, bipolar

for vagus nerve/recurrent nerve
with neutral electrode, 30° angled,
single use only, EO sterilized
Unit 10



530 666 15 mm 1.5 m

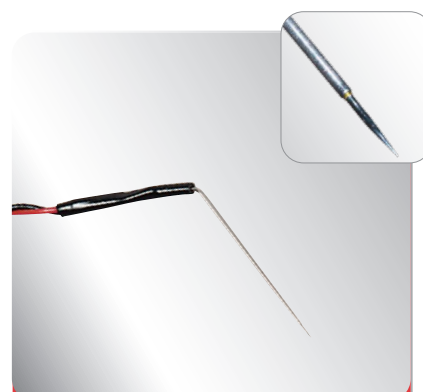


SDN Electrodes for Cranial Nerves

for trigeminal nerve/accessory nerve
90° angled, insulated, 3 mm blanc tip,
needle Ø = 0.45 mm,
single use only, EO sterilized
Unit 10



530 607 20 mm 1.2 m



Oculomotor Electrode, bipolar

for oculomotor nerve/trochlear nerve/
abducens nerve,
single use only, EO sterilized
Unit 5



532 711 20 mm 1.5 m

532 710 30 mm 1.5 m

1 | Disposable Electrodes

1.1

Subdermal Needle Electrodes (SDN Electrodes)

1.1.8

Corkscrew Electrodes



Corkscrew Electrode Set

10 sterile sets
with each 6 electrodes,
single use only,
EO sterilized



Art.
No.

mm



530 750 0.6 mm 1.0 m

530 751 0.6 mm 1.5 m



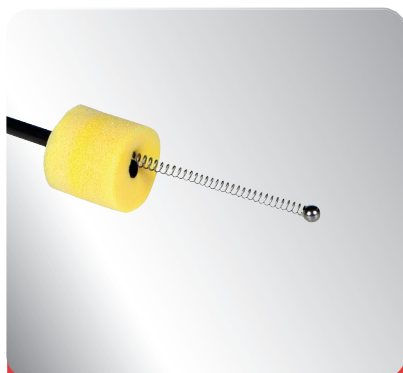
EP-Cap

helping tool for 10-20 system
single use only,
delivered non-sterile
10 sets

Art.
No.

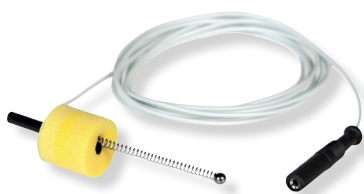
530 770

1.3 Electrodes for AEP Near-field Potentials



Tympanon Electrode

for recording of AEP near-field potentials on the tympanon
spring = 30 mm,
Ø ball = 3 mm,
with 1.5 mm touchproof connector,
delivered non-sterile, single use only
Unit 1



Art.
No.



530 453 1.5 m



Ball Electrode

for recording of near-field potentials at
the cochlear nerve
Ø ball = 1.6 mm,
with 1.5 mm touchproof connector,
single use only, EO sterilized
Unit 5



Art.
No.



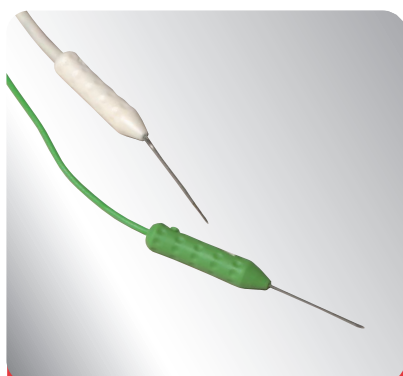
530 455 1.5 m



1.4 Electrode for Spinal Applications

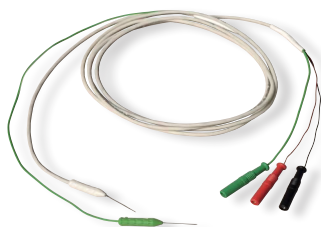


2.2 ECochG Electrodes



Electrode for vocal muscle, bipolar

30° angled,
with neutral electrode
1.5 mm touchproof male connector
delivered non-sterile,
autoclavable
Unit 1



530 227	15 mm	1.5 m	
530 228	25 mm	1.5 m	



ECochG Electrode

needle Ø = 0.45 mm,
for intraoperative or diagnostic use,
insulated with trocar tip,
delivered non-sterile,
autoclavable
Unit 1

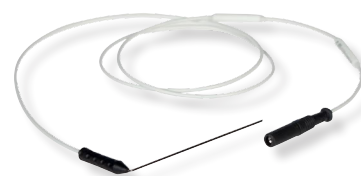


530 406	35 mm	0.6 m	
530 407	45 mm	0.6 m	
530 404	55 mm	0.6 m	



Promontory Test Electrode

needle Ø = 0.9 mm,
insulated shaft,
with active and rounded tip,
delivered non-sterile,
autoclavable
Unit 1



530 420	55 mm	0.6 m	
----------------	-------	-------	--

Bipolar Promontory Stimulation Electrode

Needle Ø = 0.76 mm,
Cable length = 1.2 m
Single use,
EO sterilized
Unit 5



530 425



55 mm

3 | Disposable Stimulation Probes



STIMULATION PROBES

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Stimulation probes are hand-held electrodes for intraoperative use. The probes are used for selective stimulation of nerves and neuronal structures and in some cases for the recording of electrophysiological signals.

BIPOLAR STIMULATION PROBES

Bipolar probes are available in the following forms: bipolar concentric probes, fork and hook probes. Bipolar probes exist in different shapes for a wide range of applications from direct cortical stimulation to stimulation and recording of direct nerve action potentials (NAPs). Bipolar probes focus the stimulation current on the area close to the probe tip and can be delivered in a variety of geometries.

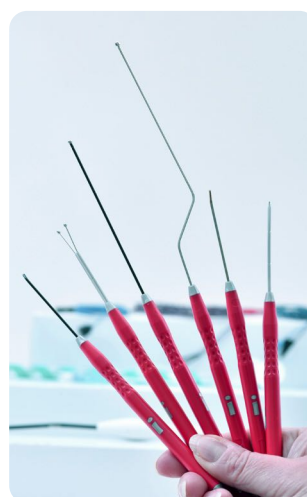
The concentric probe has a blunt tip and enables a selective and atraumatic nerve stimulation. The BCS probes (BCS = bipolar concentric stimulation) can be used for stimulation of peripheral and cranial nerves as well as at the brain stem.

MONOPOLAR STIMULATION PROBES AND SURGICAL INSTRUMENTS

Monopolar probes are used for a sensitive stimulation. The stimulation current flows homogeneously through the tissue. They are used for nerve localisation and to outline the nerve pathway.

Monopolar probes have an active electrode (the probe) and a counter electrode, which is placed outside the stimulation region. The counter electrode can be in the form of a needle electrode or stick-on pad electrodes.

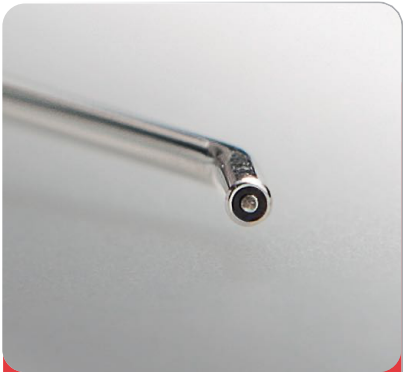
Monopolar stimulation probes are primarily used for motor mapping and peripheral nerve stimulation in spinal surgery.



3 | Disposable Stimulation Probes

Disposable stimulation probes are sterilized with EO and for single use only. All probes have a cable with 3 m length and 1.5 mm touchproof connector.

3.1 Bipolar Stimulation Probes



BCS Probe angled 30°

bipolar concentric
Unit 10



BCS Probe straight

bipolar concentric
Unit 10



BCS Probe bayonet

bipolar concentric
Unit 10



Art. No.	 cm	Total Length
522 603	4.5 cm	15.5 cm
522 601	9.0 cm	19.5 cm
522 630	13.0 cm	24 cm
522 627	23.0 cm	34 cm



Art. No.	 cm	Total Length
522 600	9.0 cm	19.5 cm
522 629	13.0 cm	24 cm

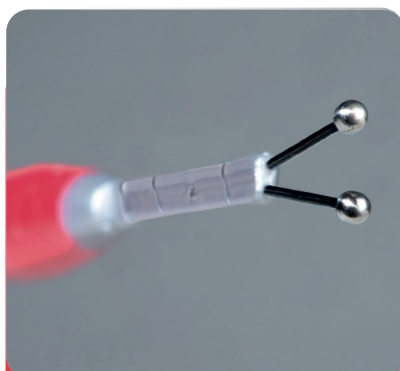


Art. No.	 cm	Total Length	Angled
522 605	13.0 cm	24.0 cm	30°
522 606	13.0 cm	24.0 cm	-

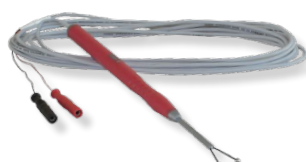
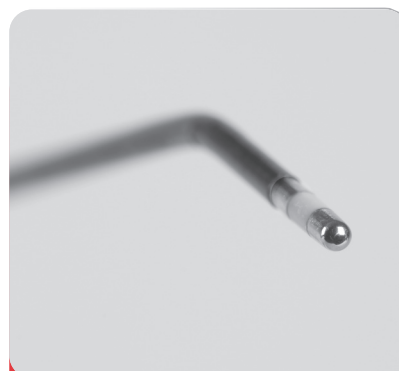


**Micro Fork Probe straight**

fork distance 2 mm,
fork length 3 mm

Unit 10**Art.
No.****Total
Length****522 610** 4.5 cm 15.5 cm**Fork Probe straight, ball tip**

fork distance 8 mm,
fork length 15 mm,
Ø ball = 2 mm

Unit 10**Art.
No.****Total
Length****522 624** 4.5 cm 15.5 cm**Stimulation Probe angled 20°**

for subcortical stimulation according
to Prof. Galanda with 2 contacts,
Ø = 2 mm, contact length 2 mm

Unit 10**Art.
No.****Total
Length****522 618** 9.0 cm 20.0 cm

3 | Disposable Stimulation Probes



Hook Probe bipolar, straight

hook distance 5 mm

Unit 10



Art.
No.



Total
Length

522 625 3.5 cm 13.2 cm



3.2 Monopolar Stimulation Probes



Stimulation Probe angled 30°

blanc tip = 2 mm,
with SDN counter electrode,
20 mm/3 m black,
Unit 10



Art. No.	 cm	Total Length
-------------	--	-----------------

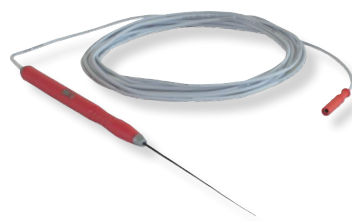
525 603	4.5 cm	16.0 cm
----------------	--------	---------

525 600	9.0 cm	20.0 cm
----------------	--------	---------



Stimulation Probe straight, flexible

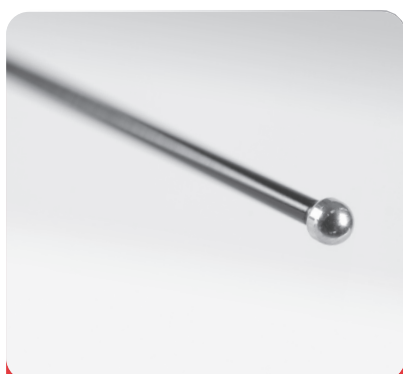
Ø = 1.4 mm,
Ø blanc tip = 0.4 mm,
with SDN counter electrode,
20 mm/3 m black
Unit 10



Art. No.	 cm	Total Length
-------------	--	-----------------

525 608	8.5 cm	19.5 cm
----------------	--------	---------

3 | Disposable Stimulation Probes



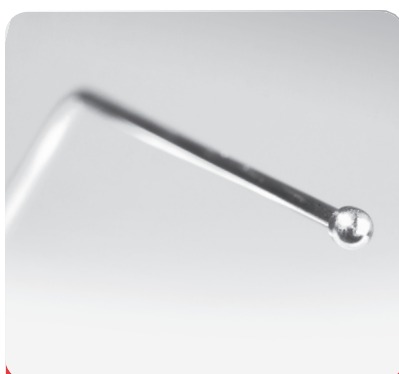
Stimulation Probe, straight, ball tip

Ø ball = 2.3 mm
with SDN counter electrode,
20 mm/3 m black
Unit 10



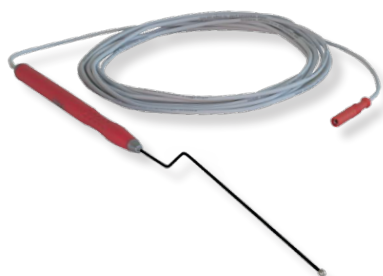
Art. No.  Total Length

525 616 8.5 cm 19.5 cm



Stimulation Probe bayonet

ball tip
Ø ball = 2.5 mm,
with SDN counter electrode,
20 mm/3 m black
Unit 10



Art. No.  Total Length

525 615 13.0 cm 24.5 cm



Raspatory, angled 30°

blanc tip = 6 mm,
with SDN counter electrode,
20 mm/3 m black
Unit 10



Art. No.  Total Length

525 612 8.5 cm 19.5 cm

3.3 Stimulation Clip for Söring Micro Instruments

New possibilities for dynamic stimulation with the Söring Micro instruments

» Tumor resection with simultaneous subcortical mapping

The stimulation suction probe has revolutionised subcortical mapping and allowed dynamic mapping without instrument change. Now the possibilities are increasing: **stimulation with an ultrasound dissector for resection and mapping in one go.**

» Maximum efficiency and safety during tumor resection

With **minimal effort** your LEVICS Micro instrument can be transformed into a **monopolar stimulation probe**. Improve surgical safety and efficiency.

» Easy to use

After use, the clip can be **easily removed** and the microinstrument can be **reprocessed as usual**.

» Sterile single-use product including referential needle electrode: always ready for use

Stimulation Clip complete set for connection of Levics ultrasonic handpieces of Söring with an inomed neuromonitoring system consisting of:

connection clip
and SDN counter electrode
single use only,
EO sterilized

Art. No. 

520 050 3 m



»» Mapping Suction Probe



»» The Mapping Suction Probe: Versatile fields of application

The Mapping Suction Probe is considered a real all-rounder: it can be used in a wide range of applications: in neurosurgery, ENT, vascular surgery, plastic surgery and maxillofacial surgery.

»» New mapping method simplifies safe tumor resection in the brain

Dynamic continuous subcortical mapping is a new method that simplifies safe tumor resection in the brain. Especially for the new mapping technique, Inomed developed the Mapping Suction Probe in cooperation with Prof. Dr. Raabe (Inselspital Bern). The combination of a surgical suction tube and a stimulation probe allows suction during tumor resection and also enables the simultaneous continuous dynamic mapping of the corticospinal tract. The mapping suction probe can be used for the continuous dynamic mapping technique and a wide range of other applications in the central and peripheral nervous system.

»» No change of instruments during the procedure

Universal use due to standard connections for suction and stimulation as well as easy handling of the suction power due to a suction control hole



Mapping Suction Probe

for continuous mapping
isolated, active tip: 2 mm,
connecting cable: red,
neutral electrode: black,
cable length: 3000 mm,
single-use product, EO sterilized



Art.
No.

cm

mm

525 651 130 mm 3 mm

525 656 130 mm 2 mm

525 650 90 mm 3 mm

525 655 90 mm 2 mm



6 | Other Accessories

6.1 VEP Stimulation

LED flash goggles



- » New small LED pads enable easy fixation without disturbing elastic bands
- » Flexible positioning of LED pads over the closed eye – fixation with standard tape
- » Small LED pads also suitable for children
- » Thin cables for flexible handling in difficult OR situations
- » Standard touchproof connectors for various systems



LED flash goggles for VEP stimulation

Ø 18.6 mm,
delivered non-sterile, disinfectable
Unit 1

Art.
No.



505 055 3.0 m

6 | Other Accessories

6.2 AEP Stimulation



***AEP Insert Earphones**

ABR 10 OHM with silicon tubes red/blue and range of earplugs, connector red and blue for insert earphones and Redel connector black/yellow for Headbox

Art. No.		Unit
540 340	2m	1
540 343	3.8 m	1



***Foam ear tips**

single use only , delivered non sterile

Art. No.		Unit
540 345	standard	50 
540 346	small	50 
540 347	big	24 

6.3 Further Accessories



Mute Sensor

to suppress HR interference signals, cable length 5 m
Unit 1

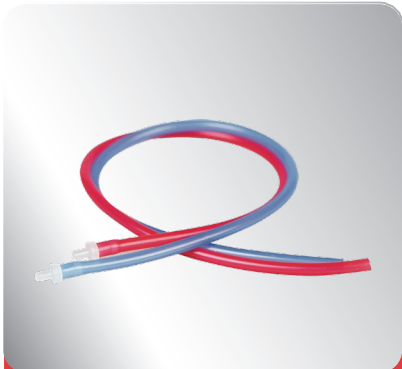
Art. No.	
510 025	4.0 m



***Replacement tube nipples**

for sound tubes and foam ear tips
Unit 10

Art. No.
540 349



***Replacement sound tubes**

packed in pairs, red/blue
Unit 2

Art. No.
540 348



Sterilisation box

synthetic, for stimulation instruments, inner dimension 267 x 159 x 16 mm, delivered non-sterile, autoclavable
Unit 1

Art. No.
522 900

7 | Overview of Boxes and Cables

All stimulation and recording boxes are surface disinfectable and are delivered non-sterile.

7.1 Stimulation Boxes



SEP Stimulation Adaptor Ch. 1-4

4 channels high current stimulation and 1 channel direct nerve stimulation, delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 501 5.0 m



MEP Stimulation Adaptor Ch. 5-12

8 channels high current stimulation, delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 511 5.0 m

7.2 Recording Boxes



ISIS EP Adaptor for Headbox 504281

for maximal 16 channel recording to a common reference and the possibility to connect AEP earphones (540340), delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 522 5.0 m



ISIS EP Adaptor for Headbox 504261

for maximal 16 channel recording to a common reference, delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 524 5.0 m



ISIS EP Adaptor for Headbox 504285

for maximal 8 channel recording to a common reference and the possibility to connect AEP earphones (540340), delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 523 5.0 m



ISIS EP Adaptor for Headbox 504285

for maximal 8 channel recording to a common reference, delivered non-sterile, non-autoclavable
Unit 1

Art. No. 
540 525 5.0 m

7 | Overview of Boxes and Cables



ISIS EMG/MEP Adaptor for Headbox 504271 and 504285 – Ch. 1-8

for maximal 8 channel differential recording,
delivered non-sterile, non-autoclavable
Unit 1

Art.
No.



540 531 5.0 m



ISIS EMG/MEP Adaptor for Headbox 504271 – Ch. 9-16

for maximal 8 channel differential recording
delivered non-sterile, non-autoclavable
Unit 1

Art.
No.



540 532 5.0 m



ISIS EMG/MEP Adaptor for Headbox 504271 – Ch.1-8

for colour-coded accessories,
for maximal 8 colour-coded differential
recording channels,
delivered non-sterile, non-autoclavable
Unit 1

Art.
No.



540 533 4.0 m



EMG Electrode Mini Box

4 channels with ground,
8 x 1.5 mm touchproof connector,
delivered non-sterile, non-autoclavable
Unit 1

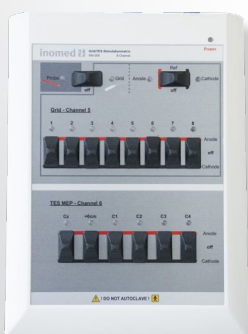
Art.
No.



540 425 4.0 m

7.3 Switch Boxes

The Grid/TES Stimulation Matrix enables flexible change of the stimulation sites during procedure. Several switches for the interconnection of all stimulation sites for MEP and up to 16 electrodes for grid stimulation in one box makes it possible to use only one stimulation channel. Easy switching between phase reversal and cortical stimulation over the same grid electrode (same blue recording adaptor) without difficult setup changes during procedure.



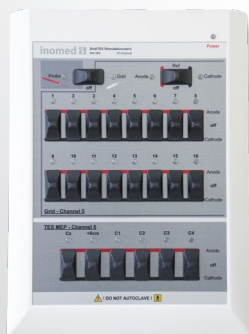
Grid/TES Stimulation Matrix 8 Ch.

for interconnection of up to
8 electrode contacts
for cortical stimulation
and up to 6 electrodes
for transcranial electrical stimulation

only in combination with
MEP stimulation adaptor 540 510,
delivered non-sterile,
non-autoclavable

Art.
No. Channels

540 559 8



Grid/TES Stimulation Matrix 16 Ch.

for interconnection of up to
16 electrode contacts
for cortical stimulation
and up to 6 electrodes
for transcranial electrical stimulation

only in combination with
MEP stimulation adaptor 540 510,
delivered non-sterile,
non-autoclavable

Art.
No. Channels

540 560 16



MEP Stimulation Adaptor

for Grid/TES Stimulation Matrix
8 channels high current stimulation,
only in combination with 540550 or
540549, delivered non-sterile,
non autoclavable

Art.
No.

540 510 5.0 m



7 | Overview of Boxes and Cables

7-4
C2 Xplore

Art. No. 508 288
C2 Xplore

C2 Xplore

One step ahead in IONM

for intraoperative nerve monitoring.
Easy to use
Neuromonitor with two
integrated stimulation
channels, loudspeaker,
footswitch and mains lead



Simplification by digitalisation and automation

- » The ultimate in user-friendliness
- » Flexibility for cost-effectiveness
- » Maximum interconnection – Inside and outside the OR
- » Broaden your knowledge and connect with international experts



7-5 C2 Xplore Adaptor Boxes



Head Box

2 stimulation channels,
4 differential EMG recording channels,
delivered non-sterile, not autoclavable

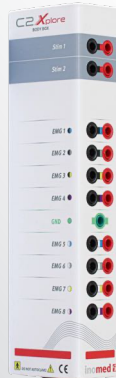
Unit 1

Art.
No.



540 430

5 m



Body Box

2 stimulation channels, 8 differential
colour-coded EMG recording channels,
delivered non-sterile, not autoclavable

Unit 1

Art.
No.



540 431

5 m



SEP Box

2 stimulation channels, 2 recording
channels with reference,
delivered non-sterile, not autoclavable

Unit 1

Art.
No.



540 432

5 m



pIOM Box

2 channels, recording and
3 differential EMG channels,
inclusive pressure sensor connection,
delivered non-sterile, not autoclavable

Unit 1

Art.
No.



540 433

5 m