

***Intraoperative
Neuromonitoring
IOM Accessories Catalogue***

Thank you very much for your interest in inomed Medizintechnik GmbH and our wide range of products!

The company

inomed Medizintechnik GmbH is a medical technology company, operating internationally, which develops and produces systems and equipment to protect nerves and treat patients more accurately and safely.

For more than 20 years inomed Medizintechnik GmbH successfully cooperates with doctors and users to develop new methods and equipment in the fields of Intraoperative Neuromonitoring, Functional Neurosurgery, Pain Treatment and Neurological Diagnostic.

With high-quality products inomed Medizintechnik GmbH improves the outcomes of treatments and surgeries and creates more safety for patients and users by innovative technologies. The products are the result of decades of experience in clinical tests and secure trials. This formula for success ensures that your patients receive the best possible treatment.

Intraoperative Neuromonitoring

Intraoperative Neuromonitoring (IONM) describes the neurophysiological monitoring of neurological functions during surgeries. Even badly visible nerves can be identified and monitored during surgery and thus be protected. This significantly reduces the risk of injury and therefore helps avoiding subsequent damage.

The accessories for stimulation and recording was developed by inomed Medizintechnik GmbH especially for intraoperative use. You can choose between disposable and reusable products.

In this accessory catalog you find a wide range of different instruments for Intraoperative Neuromonitoring as well as recommendations for standard applications.

If you still cannot find your desired product, please contact us for further inquiries.

Accessories

inomed accessories can be used with following inomed monitoring devices and devices of other manufacturers:



C2 NerveMonitor

4/8 channel Nerve Monitor for the survey of motorical nerves



ISIS IOM System

Multimodal multichannel monitoring system.



ISIS IOM portable

Multimodal multichannel monitoring system.

1.1 Disposable Stimulation Probes

Disposable stimulation probes are hand-held stimulation probes for intra-operative use. They are used for selective stimulation of nerves and neuronal structures and in some cases for the recording of electrophysiological signals.

The probes are sterilized with ETO and for single use only.

All probes have a cable with 3 m length and 1,5 mm touch proof connector.



1.1.1 Disposable bipolar Stimulation Probes

Bipolar probes are used to stimulate selectively, as the current flow is limited to the tip of the probe.

BCS = Bipolar concentric stimulation (see page 6)

	Art.-no..	Length	Description	Unit
	522 610	4,5 cm	Microfork probe straight bipolar for direct nerve stimulation. Total length with handle 15.5 cm.	10
	522 603	4,5 cm	BCS probe angled bipolar concentric for direct nerve stimulation. Total length with handle 15.5 cm.	10
	522 600	9 cm	BCS probe straight bipolar concentric for direct nerve stimulation. Total length with handle 19.5 cm.	10
	522 601	9 cm	BCS probe angled bipolar concentric for direct nerve stimulation. Total length with handle 19.5 cm.	10
	522 606	13 cm	BCS Probe bayonet straight, bipolar concentric for direct nerve stimulation. Total length with handle 24 cm.	10
	522 605	13 cm	BCS Probe bayonet angled downwards for direct nerve stimulation. Total length with handle 24 cm.	10
	522 629	13 cm	BCS probe straight bipolar concentric for direct nerve stimulation. Total length with handle 24 cm.	10
	522 630	13 cm	BCS probe angled bipolar concentric for direct nerve stimulation. Total length with handle 24 cm.	10
	522 624	4,5 cm	Cortex probe bipolar with ball tip Ø = 2 mm Total length with handle 15,5 cm.	10

1.1.2 Disposable monopolar Stimulation Probes

Monopolar stimulation probes have an active electrode to ensure a precise stimulation. The probes need a reference electrode, which is supplied in the sterile packaging. This reference electrode is placed outside the stimulation area.
SDN = Subdermalneedle

	Art.-no.	Length	Description	Unit
	525 608	8,5 cm	Monopolar stimulation probe with flexible tip for direct nerve stimulation. Ø = 1.4 mm; 0.4 mm active tip; with neutral SDN electrode 20 mm/ 3 m green.	10
	525 603	4,5 cm	Monopolar stimulation probe angled angled monopolar for direct nerve stimulation. Ø = 1.3 mm; 2 mm active tip; with neutral SDN electrode 15 mm/ 3 m green.	10
	525 615	13 cm	Monopolar stimulation probe bayonet pedicle stimulation for direct nerve stimulation. Ø = 1.4 mm; 2.5 mm active tip with neutral SDN electrode 20 mm/ 3 m green.	10

1.2 Reusable Stimulation Probes

The probes are autoclavable and are delivered non-sterile.







For the connection of the probes to the stimulator, a stimulation cable art. no. 520 024 or 520 027 is necessary.



1.2.1 Bipolar concentric Stimulation Probes (BCS Probes)








Bipolar concentric stimulation probes are atraumatic and can be used for stimulation of peripheral and cranial nerves and at the brain stem. They are designed for direct nerve stimulation and focus the stimulation current on the area close to the probe tip. The concentric probe has a blunt tip and enables a selective and atraumatic nerve stimulation. The different shapes are specific for the respective areas of application.

1.2.1.1 Straight bipolar concentric Stimulation Probes

	Art.-no.	Length	Description	Unit
	522 102	4,5 cm	BCS probe straight bipolar concentric for direct nerve stimulation. Total length with handle 15 cm.	1
	522 114	4,5 cm	BCS ball tip probe straight bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 15 cm.	1
	522 100	9 cm	BCS probe straight bipolar concentric for direct nerve stimulation. Total length with handle 19.5 cm.	1
	522 116	9 cm	BCS ball tip probe straight bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 19.5 cm.	1
	522 125	18 cm	BCS probe straight bipolar concentric for direct nerve stimulation. Total length with handle 28.5 cm.	1
	522 128	31 cm	BCS probe straight bipolar concentric for direct nerve stimulation; Ø = 1.3 mm. Total length with handle 41.5 cm.	1

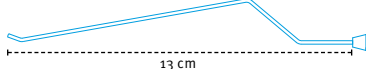




For corresponding cables see page 8.

1.2.1.2 Angled bipolar concentric Stimulation Probes

	Art.-no.	Length	Description	Unit
	522 103	4,5 cm	BCS probe angled bipolar concentric for direct nerve stimulation. Total length with handle 15 cm.	1
	522 115	4,5 cm	BCS ball tip probe angled bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 15 cm.	1
	522 120	4,5 cm	BCS ball tip probe angled bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 1.6 mm. Total length with handle 15 cm.	1
	522 101	9 cm	BCS probe angled bipolar concentric for direct nerve stimulation. Total length with handle 19.5 cm.	1
	522 110	9 cm	BCS ball tip probe angled bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 1.6 mm. Total length with handle 19.5 cm.	1
	522 117	9 cm	BCS ball tip probe angled bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 19.5 cm.	1
	522 127	9 cm	BCS ball tip probe 10 mm angled bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 19.5 cm.	1




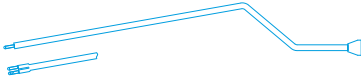


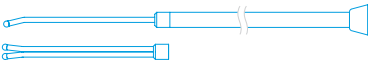
1.2.1.3 Bayonet shaped bipolar concentric Stimulation Probes

The bayonet shape improves the visibility under the microscope.

	Art.-no.	Length	Description	Unit
	522 104	13 cm	BCS probe bayonet angled upwards, bipolar concentric for direct nerve stimulation. Total length with handle 23.5 cm.	1
	522 105	13 cm	BCS probe bayonet angled downwards, bipolar concentric for direct nerve stimulation. Total length with handle 23.5 cm.	1
	522 106	13 cm	BCS probe bayonet straight, bipolar concentric for direct nerve stimulation. Total length with handle 23.5 cm.	1
	522 109	13 cm	BCS ball tip probe bayonet straight, bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 2 mm. Total length with handle 23.5 cm.	1
	522 112	13 cm	BCS ball tip probe bayonet straight, bipolar concentric for direct nerve stimulation and atraumatic preparation. Ball tip Ø = 1.6 mm. Total length with handle 23.5 cm.	1

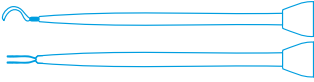
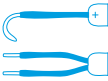


1 Stimulation Probes

1.2.2 Fork shaped bipolar Stimulation Probes

	Art.-no.	Length	Description	Unit
	522 015	1 cm	Cortex stimulation probe bipolar. Ball tip Ø = 2 mm. 4 pole connector. Total length with handle 11.5 cm.	1
	522 010	4,5 cm	Micro fork probe bipolar. Total length with handle 15 cm.	1
	522 002	13 cm	Fork probe bayonet straight bipolar. Total length with handle 23,5 cm.	1
	522 014	13 cm	Micro fork probe bayonet straight, with ball tip; Ø = 1 mm. 4 pole connector. Total length with handle 23.5 cm.	1
	522 027	25 cm	Macro fork probe straight, bipolar. Total length with handle 37 cm.	1
	522 028	31 cm	Micro fork probe straight, bipolar. Total length with handle 41.5 cm.	1
	522 031	40 cm	Fork probe straight, bipolar. Ball tip Ø = 1.5 mm. For entry with trocar. Total length with handle 49 cm.	1

1.2.3 Hooked Stimulation Probes

NAP = Nerve Action Potential

	Art.-no.	Length	Description	Unit
	522 011	4,5 cm	Micro Hooked probe straight straight, bipolar semicircle hook. Total length with handle 15 cm.	1
	522 021	2,5 cm	NAP hooked probe bipolar for recording of peripheral nerves; hook Ø = 6 mm, 4 pole connector. Total length with handle 13 cm.	1
	522 022	2,5 cm	NAP hooked probe tripolar DNS for direct stimulation of peripheral nerves; hook Ø = 6 mm, 4 pole connector. Total length with handle 13 cm.	1
	522 023	7 cm	NAP hooked micro probe tripolar for direct stimulation of peripheral nerves. Hook angled 90°, 4 pole connector. Total length with handle 17.5 cm.	1



Art.-no. 520 024
DNS Stimulation probe cable for inomed probes.

Red silicon cable with 4 pole connector on the device side and 4 pole connector on the instrument side. Delivered non-sterile, autoclavable.
Cable length 4 m.



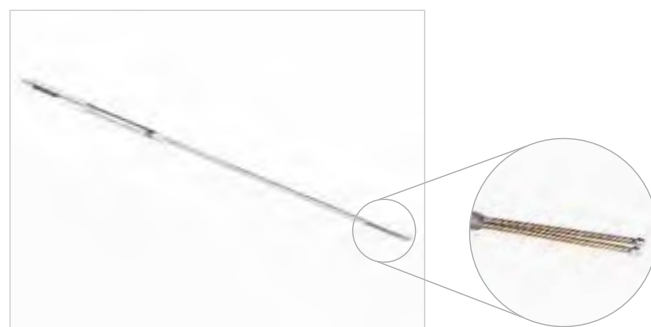
Art.-no. 520 027
Stimulation probe cable for inomed probes









Red silicon cable with 4 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802. Delivered non-sterile, autoclavable. Cable length 4 m.

1.2.4 Probes for cortical and subcortical Stimulation

The probes are autoclavable and are delivered non-sterile.

To connect the probes to the stimulator, a stimulation cable art.no. 520 193 (only for inomed stimulators) or 520 033 is necessary.



	Art.-no.	Length	Description	Unit
	522 024	1 cm	Ball tip probe bipolar for cortical stimulation. Ball tip Ø = 2.0 mm, 3 pole connector. Total length with handle 11.5 cm.	1
	522 017	2,5 cm	Stimflex probe bipolar flexible wires. Ball tip Ø = 2 mm, 3 pole connector. Total length with handle 13 cm.	1
	522 030	15 cm	Micro fork probe straight for high current stimulation. Ball tip Ø = 1.3 mm, 3 pole connector. Total length with handle 25.5 cm.	1
	522 026	13 cm	Micro fork probe bayonet straight for high current stimulation. Ball tip Ø = 1 mm, 3 pole connector. Total length with handle 23.5 cm.	1
	522 003	2,5 cm	Stimflex probe bayonet for cortical stimulation. Ball tip Ø = 2 mm, 3 pole connector. V shaped on 8 mm. Total length with handle 22.5 cm.	1
	522 019	9 cm	Bipolar stimulation probe with oval shaped tip 10° angled for subcortical stimulation according to Prof. Galanda with 2 contacts L = 2 mm after another, OD = 2 mm; 3 pole connector. Total length with handle 19.5 cm.	1
	522 018	9 cm	Bipolar stimulation probe incurved for subcortical stimulation according to Prof. Galanda with 2 contacts L = 2 mm after another, OD = 2 mm; 3 pole connector. Total length with handle 19.5 cm.	1
	522 020	9 cm	Bipolar stimulation probe with oval shaped tip 25° angled for subcortical stimulation according to Prof. Galanda with 2 contacts L = 2 mm after another, OD = 2 mm; 3 pole connector. Total length with handle 19.5 cm.	1

For corresponding cables see page 10.

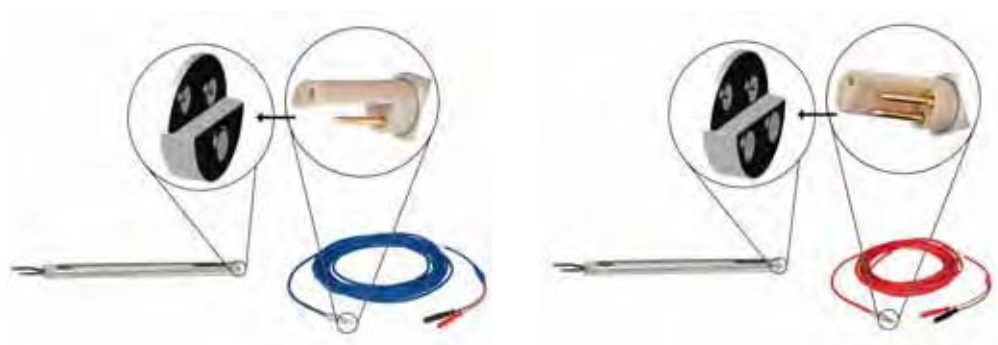


Figure: Connecting plan 3-pole and 4-pole connectors.

1 Stimulation Probes



Art.-no. 520 193
Stimulation cable
blue to OSIRIS for HC stimulation probes with 3 pole connectors. Delivered non-sterile, autoclavable.
Cable length 4 m.



Art.-no. 520 033
Stimulation probe cable
Blue silicon cable with 3 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802 red/black. Delivered non-sterile, autoclavable.
Cable length 4 m.



Art.-no. 520 078
Stimulation adaptor
for bipolar pedicel stimulation probe 522 130 with 3 pole connector and 1 mm connectors red/black.

1.2.5 Monopolar Stimulation Probes




The monopolar stimulation probes need a reference electrode which is placed outside the stimulation area.

The probes are autoclavable and are delivered non-sterile.

To connect the probes to the stimulator, a stimulation cable art.no. 520 024 or 520 027 and a monopolar stimulation adaptor art.no. 520 070 or 520 071 are necessary.













	Art.-no.	Length	Description	Unit
	525 207	2,5 cm	Monopolar stimulation probe flexible straight with ball tip, OD = 2 mm. Total length with handle 13 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 210	6 cm	Monopolar stimulation probe flexible straight with ball tip, OD = 2 mm. Total length with handle 13 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 203	9 cm	Monopolar stimulation probe straight Shaft length = 9 cm, OD = 1.5 mm. Total length with handle 19,5 cm. Connection to stimulation adaptor art. no. 520 070 or 520 071.	1
	525 200	9 cm	Monopolar stimulation probe with angled tip, shaft length = 9 cm, OD = 1.5 mm. Total length with handle 19,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 208	9 cm	Monopolar stimulation probe isolated, thin flexible tip, OD = 0,5 mm. Total length with handle 19,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 209	13 cm	Monopolar stimulation probe straight Shaft length = 13 cm, with ball tip, OD = 2 mm, Total length with handle 23,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 003	13 cm	Monopolar stimulation probe bayonet Working part length = 30 mm, bared 1.5 mm, Ø = 1.5 mm. 1.5 mm security connector black. Total length with handle 23 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1

	Art.no.	Length	Description	Unit
	525 206	13 cm	Monopolar stimulation probe bayonet straight, shaft length = 13 cm, OD = 1.5 mm. Total length with handle 23,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071..	1
	525 211	31 cm	Monopolar stimulation probe straight Shaft length = 13 cm, OD = 1.5 mm. Total length with handle 41,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1
	525 202	31 cm	Monopolar stimulation probe with angled tip shaft length = 31 cm, OD = 1.5 mm. Total length with handle 41,5 cm. Connection to stimulation adaptor art.no. 520 070 or 520 071.	1

For corresponding cables see page 12.

1.2.6 Surgical Instruments for monopolar Stimulation

The instruments are autoclavable and delivered non-sterile. To connect the probes to the stimulator, a stimulation cable art. no. 520 024 or 520 027 and a monopolar stimulation adapter art.-no. 520 070 or 520 071 are necessary.

	Art.-no.	Length	Description	Unit
	525 319	13,5 cm	MSI ball probe for monopolar stimulation. Ball tip Ø = 1.6 mm, 45° angled, active tip, 1.5 mm touchproof connector.	1
	525 310	8,5 cm	Needle straight for monopolar Stimulation. Active tip L = 4.0 mm. Isolated shaft. 1.5 mm touchproof connector. Total length with handle 19 cm	1
	525 315	8,5 cm	Ball probe for monopolar stimulation. Isolated Shaft. Ball tip Ø = 1 mm, 90° angled, active tip, with 1,5 mm touchproof connector. Total length with handle 19 cm.	1
	525 311	8,5 cm	Needle angled for monopolar stimulation. Isolated Shaft. 30° angled. Active tip. L = 4 mm, with 1,5 mm touchproof connector. Total length with handle 19 cm.	1
	525 312	8,5 cm	Raspatory angled for monopolar stimulation. Isolated shaft, active tip, 1.5 mm touchproof connector. Total length with handle 19 cm.	1
	525 316	8,5 cm	Dissector 2 mm curved for monopolar stimulation. Isolated shaft, 30° angled active tip, 1.5 mm touchproof connector. Total length with handle 19 cm.	1
	525 317	8,5 cm	Dissector 2 mm curved for monopolar stimulation. Isolated shaft, 90° angled active tip, 1.5 mm touchproof connector. Total length with handle 19 cm	1
	525 318	8,5 cm	Dissector 1,2 mm curved for monopolar stimulation. Isolated shaft, 30° angled active tip, 1.5 mm touchproof connector. Total length with handle 19 cm.	1
	525 320	8,5 cm	Rhizotomy dissector for monopolar stimulation. Isolated shaft, 90° angled active tip, 1.5 mm touchproof connector. Total length with handle 19 cm	1
	525 313	8,5 cm	Roundknife for monopolar stimulation. Round tip Ø = 2,5 mm. Isolated shaft, 90° angled active tip, 1.5 mm touchproof connector. Total length with handle 19 cm	1

For corresponding cables see page 12.

1 Stimulation Probes



Art.-no. 520 024
DNS Stimulation probe cable for inomed probes.
Red silicon cable with 4 pole connector on the device side and 4 pole connector on the instrument side. Delivered non-sterile, autoclavable. Cable length 4 m.



Art.-no. 520 027
Stimulation probe cable for inomed probes
Red silicon cable with 4 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802. Delivered non-sterile, autoclavable. Cable length 4 m.



Art.-no. 520 070
Monopolar stimulation adaptor with needle electrode for adaptation to MS probes or MS instruments to DNS stimulation cable. 2 cables, one cable with needle L = 20 mm, neutral white; 1 cable with 1.5 mm touchproof connector black. Delivered non-sterile, autoclavable. Cable length 0.7 m.



Art.-no. 520 071
Monopolar stimulation adaptor for disposable electrodes for adaptation to MS probes or MS instruments to DNS stimulation cable. 2 cables, one cable with 1 mm connector green for disposable neutral electrode; one cable with 1.5 mm touchproof connector black. Delivered non-sterile, autoclavable. Cable length 0.7 m.



Art.-no. 530 617
SDN electrode with 1 mm connector green. ETO-sterilised, single use only. Needle length 15 mm, cable length 25 cm. Unit 10.

1.2.7 Pedicle Stimulation Probe

For the connection of the pedicle stimulation probe stimulation cables 520 078 and 520 193 or 520 078 and 520 033 are necessary. See page 10.

Art.-no.	Length	Description	Unit
522 130	30 cm	Bipolar pedicle stimulation probe with 1 mm connections red and black. Inner diameter = 1.67 mm (compatible with Kirschner wire up to 1.6 mm diameter).	1

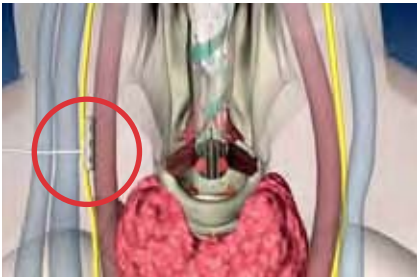
1.3 Continuous Vagus Stimulation



The V3 tripolar stimulation electrode for the vagus nerve is the key to a simple and safe method for continuous intraoperative stimulation of the vagus nerve.


The electrode allows a gentle stimulation of the nerve as it is inserted in the neurovascular sheath of the vagus nerve. Through its' tripolarity the electrode generates an electric field which is strong enough to penetrate the Vagus nerve as well as the fibers of the recurrent nerve. This allows the surgeon to continuously monitor the function of the entire nerve path up to the vocal cord during critical tissue preparations.

The V3 tripolar stimulation electrode is autoclavable and delivered non-sterile.

To connect the electrode to the stimulator a stimulation cable art.no. 520 024 is necessary.



Art.-no. Description		Unit
	522 200 V3 tripolar stimulation electrode work length L=21 mm, OD=5 mm, contact ring width 3 mm, 4 pole connector, cable 40 cm.	1
	522 205 Forceps to apply the V3 vagus stimulation electrode	1

	Art.-no. 520 024 DNS Stimulation probe cable for inomed probes. Red silicon cable with 4 pole connector on the device side and 4 pole connector on the instrument side. Delivered non-sterile, autoclavable. Cable length 4 m.
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2 Electrodes for Stimulation and Recording

2.1 Disposable Electrodes







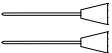

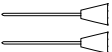

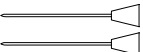

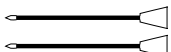

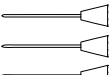



2.1.1 Subdermal Needle Electrodes (SDN electrodes) with 1.5 mm Touchproof Connector

Subdermal needle electrodes (SDN electrodes) allow an easy and reliable recording of EMG signals. For different applications inomed Medizintechnik GmbH offers a variety of electrodes in different shapes and lengths.











The SDN electrodes have a 1.5 mm touchproof connector.

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






	Art.-no.	Needle length	Cable length	Description	Unit	Colour
	530 627	20 mm	1,2 m	SDN electrode Needle OD = 0,45 mm	10	
	530 649	20 mm	3 m	SDN electrode Needle OD = 0,45 mm	10	
	530 612	12 mm	2 m	SDN electrode pair Special thin needle OD = 0.35 mm.	10	
	530 682	15 mm	1,2 m	SDN electrode pair Needle isolated, AD = 0.45 mm, 2 mm blunt tip.	10	
	530 683	15 mm	2 m	SDN electrode pair Needle isolated, AD = 0.45 mm, 2 mm blunt tip.	10	
	530 626	20 mm	1,2 m	SDN electrode pair Needle OD = 0,45 mm	10	
	530 680	25 mm	1,2 m	SDN electrode pair Needle isolated, AD = 0.8 mm, 2 mm blunt tip. White cables separate.	10	
	530 628	15 mm	1,2 m	SDN electrodes triple Needle OD = 0,45 mm	10	
	530 622	20 mm	1,2 m	SDN electrodes triple Needle OD = 0,45 mm	10	

2.1.2 Electrodes with 1.5 mm Touchproof Connector

	530 453		1,5 m	Tympanon electrode for recording of AEP nearfield potentials. Clip = 30 mm, ball = 3 mm. Delivered non-sterile, for single use..	1	
	530 684			FSR 02 Flexible 2-pole recording and stimulation electrode for cortico spinal and other applications. Total length 2 m. Depth marks up to 30 cm in 1 cm steps. ETO sterilized, single use only.	5	
	530 750	0,6 mm	1 m	Corkscrew electrode set spiral needle Packed in pieces of 10 each with 6 electrodes red/ green/yellow/blue/black/white. ETO sterilized, single use only.	60	
	530 751	0,6 mm	1,5 m	Corkscrew electrode set spiral needle Packed in pieces of 10 each with 6 electrodes red/ green/yellow/blue/black/white. ETO sterilized, single use only.	60	
	530 607	20 mm	1,2 m	SDN electrode pair for Trigemini, 90° angled. Isolated, 3 mm active tip, with 1,5 mm touchproof connector, red. ETO sterilized, single use only.	10	

2.1.3 Subdermal Needle Electrodes (SDN electrodes) with 1 mm Connector

The SDN electrodes have a 1 mm connector. The electrodes are available individually or in pairs and in different colours. The electrodes are sterilized with ETO and for single use only.

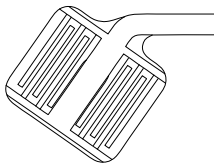
	Art.-no.	Needle Length	Cable Length	Description	Unit	Colour
	530 630	15 mm	0,25 m	SDN electrode	10	Black
	530 631	15 mm	0,25 m	SDN electrode	10	Brown
	530 632	15 mm	0,25 m	SDN electrode	10	Red
	530 634	15 mm	0,25 m	SDN electrode	10	Yellow
	530 636	15 mm	0,25 m	SDN electrode	10	Blue
	530 637	15 mm	0,25 m	SDN electrode	10	Purple
	530 638	15 mm	0,25 m	SDN electrode	10	Grey
	530 639	15 mm	0,25 m	SDN electrode	10	White
	530 617	15 mm	0,25 m	SDN electrode	10	Green
	530 619	20 mm	0,25 m	SDN electrode	10	Black
	530 615	15 mm	0,25 m	SDN electrode pair	10	Yellow, Yellow
	530 616	15 mm	0,25 m	SDN electrode pair	10	Blue, Blue
	530 618	15 mm	0,25 m	SDN electrode pair	10	Red, Black
	530 641	23 mm	0,5 m	SDN electrode pair	10	Blue, Blue
	530 642	23 mm	0,5 m	SDN electrode pair	10	Red, Red
	530 643	23 mm	0,5 m	SDN electrode pair	10	Grey, Grey
	530 646	23 mm	0,5 m	SDN electrode pair	10	Black, Black
	530 648	23 mm	0,5 m	SDN electrode pair	10	Green, Green
	530 610	9 mm	0,25 m	SDN electrode pair with 1mm connector for VCA applicator.	10	Brown, Brown
	530 611	9 mm	0,25 m	SDN electrode pair with 1mm connector for VCA applicator.	10	Purple, Purple
	530 609	9 mm	0,3 m	SDN electrode pair with 1mm connector for VCA applicator.	10	White, White
	530 600			Hooked Wire Electrodes in connection with HW applicator platinum wire OD = 0.07 mm, length = 30 cm. Packed in pairs in cannula tube.	10	

For VCA applicators and Hooked Wire applicators see page 28/29.



2 *Electrodes for Stimulation and Recording*

2.1.4 *Adhesive Electrodes for laryngeal tube*

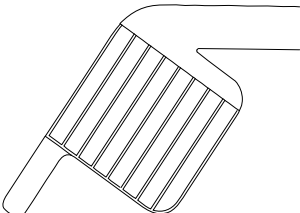
	Art.-no.	Description	Unit
	530 655	Laryngeal electrode for tubes with 6—7 mm inner diameter, 2 channels. Adhesive surface length = 32 mm, width = 29 mm with neutral adhesive electrode. ETO sterilized, single use only.	10
	530 656	Laryngeal electrode for tubes with 7.5—9 mm inner diameter, 2 channels. Adhesive surface length = 32 mm, width = 37 mm with neutral adhesive electrode. ETO sterilized, single use only.	10



Art.-no. 530 665
Connecting cable S
shielded for laryngeal electrodes channel 1 and 2 with ground, 5 x 1.5 mm touchproof connector DIN 41801. Bend protection yellow. Delivered non-sterile, can be disinfected. Cable length 4 m



Art.-Nr. 530 667
Connecting cable S
shielded for inomed laryngeal electrodes, channel 1 and 2 with reference. Redel connector 10 pole 40°. Bend protection blue. Delivered non-sterile, can be disinfected. Cable length 4 m



	Art.-no.	Description	Unit
	530 855	Laryngeal electrode Select for tubes with 6—7 mm inner diameter, 4 channels. Adhesive surface length = 32 mm, width = 29 mm with neutral adhesive electrode. ETO sterilized, single use only.	10
	530 856	Laryngeal electrode Select for tubes with 7.5—9 mm inner diameter, 4 channels. Adhesive surface length = 32 mm, width = 37 mm with neutral adhesive electrode. ETO sterilized, single use only.	10



Art.-no. 530 867
Connecting cable S
shielded for inomed laryngeal electrodes 4 channel diff. with ground. Redel connector 10 pole 40°. Bend protection blue. Delivered non-sterile, can be disinfected. Cable length 4 m



Art.-no. 530 869
Connecting cable
shielded for inomed laryngeal electrodes, 2 channels diff. with ground, 5 x 1.5 mm touchproof male connector DIN 42802. Delivered non-sterile, can be disinfected. Cable length 4 m

	Art.-no.	Needle length	Cable length	Description	Unit	Colour
	530 666	15 mm	1,5 m	Electrode bipolar for vocal muscle with neutral electrode, 30° angled. ETO sterilized, single use only.	10	

2.1.5 Grid/Strip Electrodes

Cortex - Grid electrodes are available in various models with 4, 6 or 8 contacts per strip, and a different number of strips.

For all cortical grid electrodes, however, the following applies:

- up to 30 days implantable
- contact: Platinum/iridium, MRI-compatible
- diameter = 2,5 mm, interval = 10 mm
- contact strip: 0,7 mm thin, 10 mm wide
- ETO sterilized, for single use only.



Art.-no. 610 018

Number of con- tacts per strip	1 Strip	2 Strips	3 Strips	4 Strips	5 Strips	6 Strips	7 Strips	8 Strips
4	610 014	610 024	610 034	610 044	610 054	610 064	610 074	610 084
6	610 016	610 026	610 036	610 046	610 056	610 066	610 076	610 086
8	610 018	610 028	610 038	610 048	610 058	610 068	610 078	610 088
Cable holder art.-no. 610 099 inclusive	1 Piece	2 Pieces	3 Pieces	4 Pieces	5 Pieces	6 Pieces	7 Pieces	8 Pieces
grid electrode cable art.-no. 610 110 or 610 115	1 Piece	1 Pieces	2 Pieces	2 Pieces	3 Pieces	3 Pieces	4 Pieces	4 Pieces

For the connection of the grid electrodes to the different systems a respective adaptor cable is necessary. For the different models of electrodes a variety of adaptor cables with different amounts of contacts are available.

Grid electrode cable	90 cm	300 cm
Art.-no.	610 110	610 115



Art.-no. 610 110

Adapter cable	1 x 4 Contacts	1 x 6 Contacts	1 x 8 Contacts	2 x 4 Contacts	2 x 6 Contacts	2 x 8 Contacts
Security connector Art.-Nr.	610 131	610 132	610 133	610 135	610 136	610 137
Redel connector Art.-no.	540 308	540 308	540 308	540 304	540 316	540 316

The adaptor cable with redel connector can exclusively be used to connect to inomed devices.

Adaptor cables with touchproof connectors can also be connected to devices of other manufacturers.

See page 18 for adaptor cables.

2 Electrodes for Stimulation and Recording



Art.-no. 610 133

Adaptor cable 1/8

for grid electrode cable for connection of the grid electrode with 1 strip and max. 8 contacts over grid electrode cable. Redel connector with 1 x 8 connecting cables with 1.5 mm touchproof connectors.

Delivered non-sterile, autoclavable.

Unit 1



Art.-no. 610 137

Adaptor cable 2x8

for maximum 2 x 8 channels with touch proof connector for the connection to EP-electrodes minibox combined with Grid electrodes cable 610 110 / 610 115. Delivered non-sterile, autoclavable.

Cable length 2 m.

Unit 1.



Art.-no. 540 308

Grid extension cable

Grid extension cable for max. 8 channels for connection to ISIS IOM Headbox together with connecting cable 610 110 / 610 115. Delivered nonsterile, autoclavable.

Cable length 2 m.

Unit 1.



Art.-no. 540 316

Grid extension cable

Grid extension cable for max. 2 x 8 channels for connection to ISIS IOM Headbox together with connecting cable 610 110 / 610 115. Delivered non-sterile, autoclavable.

Cable length 2 m.

Unit 1.



Art.-no. 540 414

EP electrode mini box

to ISIS IOM headbox 9 x 1.5 mm touchproof connectors DIN 42802. Delivered non-sterile, not autoclavable.

Cable length 3 m.

Unit 1.



Art.-no. 540 394

Switch box for grid electrodes 2 x 8 channel

Delivered non-sterile, not autoclavable.











Unit 1.

2.2 Reusable Electrodes

2.2.1 Subdermal Needle Electrodes (SDN electrodes) with 1,5 mm Touchproof Connector

The reusable subdermal needle electrodes have a 1.5 mm touchproof connector.




The electrodes are autoclavable and delivered non-sterile.

	Art.-no.	Needle length	Needle length	Description	Unit	Colour
	520 057	15 mm	1,5 m	SDN electrode Needle OD = 0,45 mm.	1	
	520 059	23 mm	1,5 m	SDN electrode Needle OD = 0,45 mm.	1	
	530 050	20 mm	1,2 m	SDN electrode pair twisted, for stimulation or recording. Needle OD = 0,45 mm.	1	
	530 038	15 mm	1,2 m	SDN electrode triple Cable colour blue. Needle OD = 0,45 mm.	1	
	530 039	15 mm	1,2 m	SDN electrode triple Cable colour yellow. Needle OD = 0,45 mm.	1	
	530 036	20 mm	1,2 m	SDN electrode triple Cable colour blue. Needle OD = 0,45 mm.	1	
	530 037	20 mm	1,2 m	SDN electrode triple Cable colour yellow. Needle OD = 0,45 mm.	1	

2.2.2 Subdermal Needle Electrodes with 1 mm Connector


The reusable subdermal needle electrodes have a 1 mm connector.

The electrodes are autoclavable and delivered non-sterile.

	Art.-no.	Needle length	Cable length	Description	Unit	Colour
	530 211	20 mm	0,3 m	Oculomotorius electrode bipolar.	1	
	530 210	30 mm	0,3 m	Oculomotorius electrode bipolar.	1	


2 Electrodes for Stimulation and Recording

2.2.3 Electrodes with 1.5 mm Touchproof Connector

	Art.-no.	Needle length	Cable length	Description	Unit	Colour
	530 404	55 mm	0,6 m	ECochG electrode Needle OD = 0,45 mm. For intraoperative or diagnostic use. Isolated with trorkar tip.	1	■
	530 406	35 mm	0,6 m	ECochG electrode Needle OD = 0,45 mm. For intraoperative or diagnostic use. Isolated with trorkar tip.	1	■
	530 407	45 mm	0,6 m	ECochG electrode Needle OD = 0,45 mm. For intraoperative or diagnostic use. Isolated with trorkar tip.	1	■
	530 420	55 mm	0,6 m	Promontory test electrode Needle OD = 0,9 mm. Isolated Shaft, with active, rounded tip.	1	■








2.2.4 Surface Electrodes

The electrodes are delivered non-sterile and not autoclavable.









	Art.-no.	Needle length	Description	Unit
	585 200	0,5 m	3 surface cup electrodes Ø = 11 mm, electrodes gold plated, various cable colours with 1.5 mm touchproof connector.	3
	585 205	0,5 m	5 surface cup electrodes Ø = 7 mm, electrodes gold plated, various cable colours with 1. touchproof connector.	5
	585 210	0,5 m	5 surface cup electrodes Ø = 10 mm, electrode pure silver chlorinated, with 1.5 mm touchproof connector, various colours.	5
	585 211	1 m	5 surface cup electrodes Ø = 10 mm, electrode pure silver chlorinated, with 1.5 mm touchproof connector, various colours.	5
	585 201	0,5 m	5 surface cup electrodes Ø = 11 mm, electrodes gold plated, various cable colours with 1.5 mm touchproof connector.	5
	585 202	1 m	5 surface cup electrodes Ø = 11 mm, electrodes gold plated, various cable colours with 1.5 mm touchproof connector.	5
	585 203	1,5 m	5 surface cup electrodes Ø = 11 mm, electrodes gold plated, various cable colours with 1.5 mm touchproof connector.	5
	585 204	2 m	5 surface cup electrodes Ø = 11 mm, electrodes gold plated, various cable colours with 1.5 mm touchproof connector.	5
	585 212	1 m	10 surface cup electrodes Ø = 10 mm, electrode pure silver chlorinated, with 1.5 mm touchproof connector, various colours.	10
	585 213	0,6 m	Surface disc electrode Ø electrode = 10 mm, Ø contact area = 5 mm, pure silver chlorinated with 1.5 mm touchproof connector.	1
	585 214	1 m	Surface disc electrode Ø electrode = 10 mm, Ø contact area = 5 mm, pure silver chlorinated with 1.5 mm touchproof connector.	1
	585 215	1 m	Surface disc electrode Ø electrode = 10 mm, Ø contact area = 5 mm, pure silver chlorinated with 1.5 mm touchproof connector.	1

3.1 Reusable Cables for Stimulation

The stimulation cables are used for the connection of probes or electrodes to stimulators. The cables are either autoclavable or surface disinfectable and are delivered non-sterile.










	Art.-no.	Cable length	Description	Unit
	520 070	0,7 m	Monopolar stimulation adaptor with needle electrode for adaptation to monopolar stimulation probes or instruments to stimulation cable 520 024 oder 520 027. 2 cables, first cable with needle L = 20 mm, neutral white; second cable with 1.5 mm touchproof connector black.	1
	520 071	0,7 m	Monopolar stimulation adaptor with 1 mm connector for adaptation to monopolar stimulation probes or instruments to stimulation cable 520 024 oder 520 027. 2 cables, first cable with needle L = 20 mm, neutral white; second cable with 1.5 mm touchproof connector black.	1
	520 072	0,7 m	Monopolar stimulation adaptor with needle electrode for adaptation to monopolar stimulation probes or instruments to stimulation cable 520 193 or 520 033. 2 cables, first cable with needle L = 20 mm, neutral green; second cable with 1.5 mm touchproof connector red.	1
	520 073	0,7 m	Monopolar stimulation adaptor with needle electrode for adaptation to monopolar stimulation probes or instruments to stimulation cable 520 193 or 520 033. 2 cables, first cable with needle L = 20 mm, neutral green; second cable with 1.5 mm touchproof connector red.	1
	520 067	1,2 m	Adaptor cable bipolar with 1.5 mm touchproof connector and 1 mm connector red/black. For electrodes with 1mm connector.	1
	520 040	2 m	Adaptor OSIRIS DNS for single use stimulation probes. 4 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802 red, black.	1
	520 024	4 m	DNS Stimulation probe cable for inomed probes, red silicon cable. 4 pole connector on the device side and 4 pole connector on the instrument side.	1

3 Cables for Stimulation and Recording

	520 027	4 m Stimulation probe cable for inomed probes, red silicon cable. 4 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802.	1
	520 078	0,7 m Stimulation adaptor for bipolar pedikel stimulation probe 522 130 with 3-pole connector and 1 mm connector red/black.	1
	520 033	4 m Stimulation cable HC for inomed high current probes, blue silicon cable. 3 pole connector on the instrument side and 2 x 1.5 mm touchproof connectors DIN 42 802 red/black.	1
	520 193	4 m Stimulation cable HC blue to OSIRIS for HC stimulation probes with 3 pole connector.	1
	520 195	4 m Stimulation cable HC 1 channel with 1.5 mm touchproof connector to OSIRIS/NeMo.	1
	520 196	4 m Stimulation cable HC 2 channels with 1.5 mm touchproof connectors to OSIRIS/NeMo.	1
	541 126	2,5 m Stimulation cable HC 2 channels for electrical stimulation with 1.5 mm connectors red/black for SDN electrodes..	1
	540 340 540 343	2 m AEP Insert-Earphones 3,8 m 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.	1

3.2 Reusable Cables for Recording


The cables are either autoclavable or surface disinfectable and are delivered non-sterile.

	Art.-no.	Cable length	Description	Unit
	540 400	2 m	ISIS Headbox recording cable for SDN electrodes with 1 mm connector colour-coded 1–9.	1
	540 402	2 m	ISIS Headbox recording cable 10 pole with push-button adaptors black for adhesive surface electrode.	1
	540 403	2 m	ISIS Headbox recording cable split in 4 single channels with 1 mm connectors colour-coded 1–9.	1
	540 416	2 m	ISIS AEP/SEP cable with 1 mm connectors colour-coded.	1
	530 123	1,2 m	Recording cable 1 channel with reference, plaited for SDN electrodes; cable length 1.2 m, 1 mm connector on 1.5 mm touchproof connector. Delivered non-sterile, autoclavable.	1
	530 126	1,2 m	Recording cable 2 channel with reference, plaited for SDN electrodes, cable length 1.2 m, 1 mm connector to 1.5 mm touchproof connector. Delivered non-sterile, autoclavable.	1
	540 304	2 m	Grid extension cable for max. 2 x 4 channels for connection to ISIS IOM Headbox together with connecting cable 610 110 / 610 115.	1
	540 308	2 m	Grid extension cable for max. 8 channels for connection to ISIS IOM Headbox together with connecting cable 610 110 / 610 115.	1
	540 316	2 m	Grid extension cable for max. 2 x 8 channels for connection to ISIS IOM Headbox together with connecting cable 610 110 / 610 115.	1

4 Stimulation and Recording Adaptor Boxes


4.1 Stimulation boxes

The boxes are surface disinfectable and are delivered non-sterile.

	Art.-no.	Cable length	Description	Unit
	520 191	4 m	Universal adaptor for OSIRIS NeuroStimulator Channel 1—4 with touchproof connectors for universal applications and 3 connectors for stimulation cable 2 x 541 120 and 1 x 541 121.	1
	520 192	4 m	Universal adaptor for OSIRIS NeuroStimulator Channel 5—8 with touchproof connectors for universal applications and 3 connectors for stimulation cable 2 x 541 120 and 1 x 541 121.	1
	520 203	4 m	MEP adaptor for OSIRIS NeuroStimulator CH 5—7 with 1.5 mm touchproof connectors and 2 mm connectors for HC stimulation cable 520 193.	1





4.2 Recording boxes

The boxes are surface disinfectable and are delivered non-sterile.

	Art.-no.	Cable length	Description	Unit
	540 414	3 m	EP electrode mini box to ISIS IOM headbox 9 x 1.5 mm touchproof connectors DIN 42802.	1
	540 406	4 m	ISIS Headbox EMG adaptor for recording electrodes with 1.5 mm touchproof connectors max. 4 channels adaptor box with clamps for OR table.	1
	540 415	4 m	EMG electrode mini box 2 channel with ground 4 x 1.5 mm touchproof connectors DIN 42802.	1
	540 425	4 m	EMG electrode mini box 4 channel with ground 8 x 1.5 mm touchproof connectors DIN 42802.	1

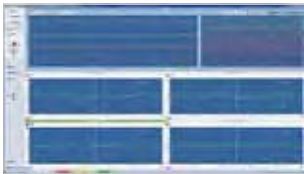
4.3 Switch boxes

The boxes are surface disinfectable and are delivered non-sterile.


	Art.-no.	Cable length	Description	Unit
	520 220	0,5 m	Stimulation switch box for 2 stimulation instruments. Switch between continuous and controlling stimulation for devices with a stimulation channel. 4 pole connector on the instrument side. Instrument connection to inomed single use and reusable stimulation probes; incl. footswitch.	1
	520 205	4 m	TES mini box for switch box article 520 207 or 520 208 with 6x1.5 mm touchproof connectors black DIN42802. Delivered non-sterile, not autoclavable.	1
	520 207	2 m	TES switch box with redel connector..	1
	520 208	2 m	TES switch box with 1.5 mm touchproof connector.	1
	540 394		Switch box for grid electrodes 2 x 8 channel. Delivered non-sterile, not autoclavable.	1

5.1 Software-Features for ISIS IOM system

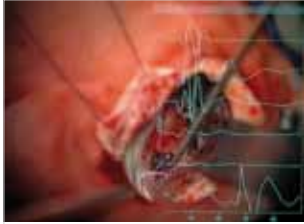
5.1.1 Screen2Video – video taping

Art.-no..	Description	Unit
 504 290	Screen2Video module for recording of the screen for later analysis.	1


5.1.2 Narcotrend

Art.-no..	Description	Unit
 520 400	Narcotrend module extension for ISIS IOM and NeMo. Monitoring of depth of anaesthesia based on EEG-Monitoring for surgery and intensive care.	1
520 420	Narcotrend Stand alone module Monitoring of depth of anaesthesia based on EEG-Monitoring for surgery and intensive care.	1


5.1.3 Interface to Pentero microscope

Art.-no..	Description	Unit
 504 295	Microscope module for Zeiss Pentero microscope for displaying the measured curves into the ocular. Software including interface cable	1


5.1.4 Video Option

Art.-no..	Description	Unit
 540 007	Video software module Video card with galvanic isolation.	1

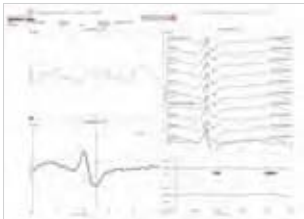
5.1.5 iSSS Licence

Art.-no..	Description	Unit
 504 170	System Security Solution	1
504 171	Antivirus protection annual licence for all ISIS systems with iSSS, includes monthly updates with the latest virus definitions.	
504 173	Antivirus protection three-year-licence for all ISIS systems with iSSS, includes monthly updates with the latest virus definitions.	

5.1.6 Remote Option

	Art.-no.	Description	Unit
	504 205	Remote option for network access incl. NetOP Software.	1









5.1.7 ISIS Software for Analysis






	Art.-no.	Description	Unit
	504 401	ISIS Software for analysis without recording function.	1

5.1.8 Software Features for C2 NerveMonitor

	Art.-no.	Description	Unit
 	508 510	Channel Select software module for C2 NerveMonitor, for automatical identification and presentation of the optimal channel for C2 EMG software. (from v1.4.0).	1

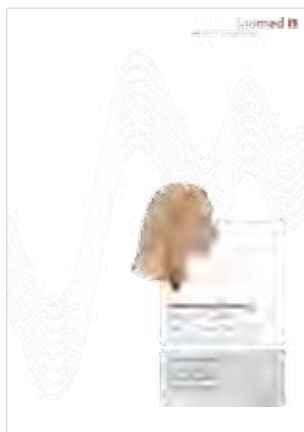
5.2 Spare parts and further accessories

	Art.-no.	Description	Unit
	522 900	Sterilisation box synthetic, for stimulation instruments. Inner dimensions 267 x 159 x 16 mm. Delivered non-sterile, autoclavable.	1
	510 005	Mute Sensor to suppress sound output during electrocautery, cable length 4 m..	1
	504 360	Sterile cover for touchscreen + C2 monitor. ETO sterilised, single use only.	1
	540 345	Foam eartips standard size (3A, yellow)	50
	540 346	Foam eartips smaller size (3B, beige)	50
	540 347	Foam eartips big size (3C, yellow) for extra large auditory channels	24
	540 348	Replacement sound tubes packed in pairs, red/blue.	2
	540 349	Replacement tube nipples for sound tubes and foam eartips	10
	530 110	Hooked Wire Applicator Set for intraoperative use, consisting of: Hooked wire applicator straight with flexible guide tube aert. no. 530 102, recording cable 2 channel with reference, 2 crocodile clamps, 10 disposable SDN electrodes, 10 disposable hooked wire electrodes platinum.	1
	530 103	Hooked Wire Applicator straight for intraoperative interventions, for placing the electrodes at the intubated patient. Delivered non-sterile, autoclavable.	1
	530 102	Flexible guide tube for Hooked Wire Applicator. Delivered non-sterile, autoclavable.	1

	530 106 Hooked Wire Electrode recording cable with mini clamps and neutral electrode cable 1.2 m, mini clamps red/black, needle Ø = 0.45 mm, length 15 mm, touchproof connector 1.5 mm red/black/green. Delivered non-sterile, autoclavable.	1
	530 120 Vocalis Electrode Applicator set consisting of: Vocalis Electrode Applicator, recording cable 2 channel with reference, 10 disposable SDN electrode pairs white, 10 disposable SDN electrodes green.	1
	530 121 Vocalis Electrode Applicator for 9 mm needles, with handle. Delivered non-sterile, autoclavable.	1
	530 124 Connecting clamps for Hooked Wire Electrodes to stimulation cable with 1 mm connectors red/black with 1 mm connector, set 2 pieces, red/black with 1 mm connector. Delivered non-sterile, autoclavable.	2
	530 131 2 crocodile clamps for HWE small to recording cable with 1 mm connectors, set 2 pieces red/black, with 1 mm connector. Delivered non-sterile, autoclavable.	2



For further informations for our standard applications please see the listed application notes:



EMG and Direct Nerve Stimulation During Thyroid Surgery



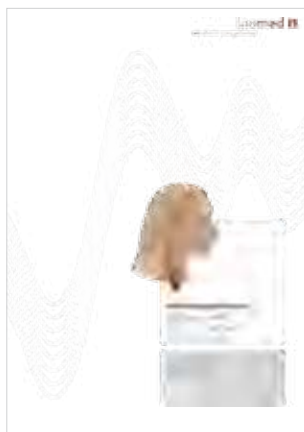
Intraoperative Neuro-monitoring in the Skull Base Surgery



EMG-, SSEP-, MEP Monitoring in Spinal Column Surgery



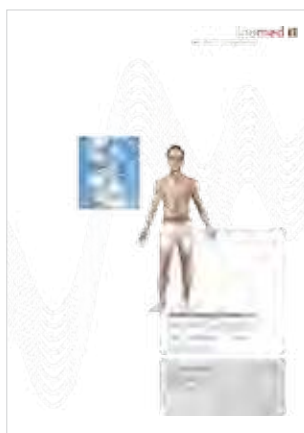
Transcranial MEP – Spinal and Cerebral Monitoring (TES MEP)



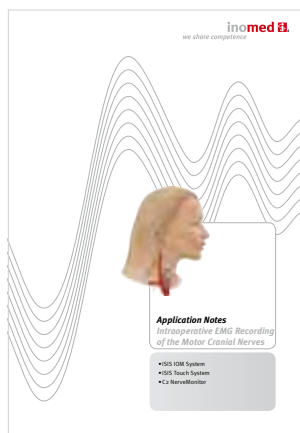
Intraoperative Neuro-monitoring in ENT Surgery



Neurosurgery – Functional Mapping (Phase Reversion SEP + Direct Cortical Stimulation)



EMG Monitoring for the Lateral Approach from Synthes



Intraoperative EMG Recording of the Motor Cranial Nerves



Development

Our products are the result of decades of experience in clinical tests and secure trials. This formula for success ensures that your patients receive the best possible treatment.

Quality management

Our work is driven by the very essence of medicine: helping people. This makes for high quality, reliable products – a standard that we strive to safeguard and maintain every single day.

Technical support

The use of our systems very much depends on smooth functioning and skilled operation. Our support team provides reliable, knowledgeable answers to all your technical questions as well as a straightforward on-site service.

System finder

When it comes to choosing new systems, we can help you select the equipment which best suits your needs. This saves you valuable time and offers you maximum reliability right from the start both in terms of planning and cost.

Hotline

We are there for you whenever you need us. Our fast, reliable service provides you with solutions either via telephone or directly on site.

Training events

Our regular training courses for surgeons, medical assistants and operating theatre staff keep you up to date with the latest research. Naturally, our training services also include detailed on-site training and system start-up.

Preventive maintenance

Regular servicing, inspections and software updates are indispensable requirements for smooth operating room processes. They ensure that your equipment is always kept up to date and offers the highest level of functional safety.

Individual solutions

We would be delighted to advise you – not just about our systems, but also about going beyond them. Our in-house production allows us work together with our clients to create tailored solutions for specific applications.



DQS – zertifiziertes Managementsystem
für DIN EN ISO 13485:2003



Our Product Portfolio

Our broad range of products is divided into four core areas. In close collaboration with customers, we continually translate new ideas into tools and develop new methods for the patients' benefit. Find an overview about the variety of competencies on the internet.

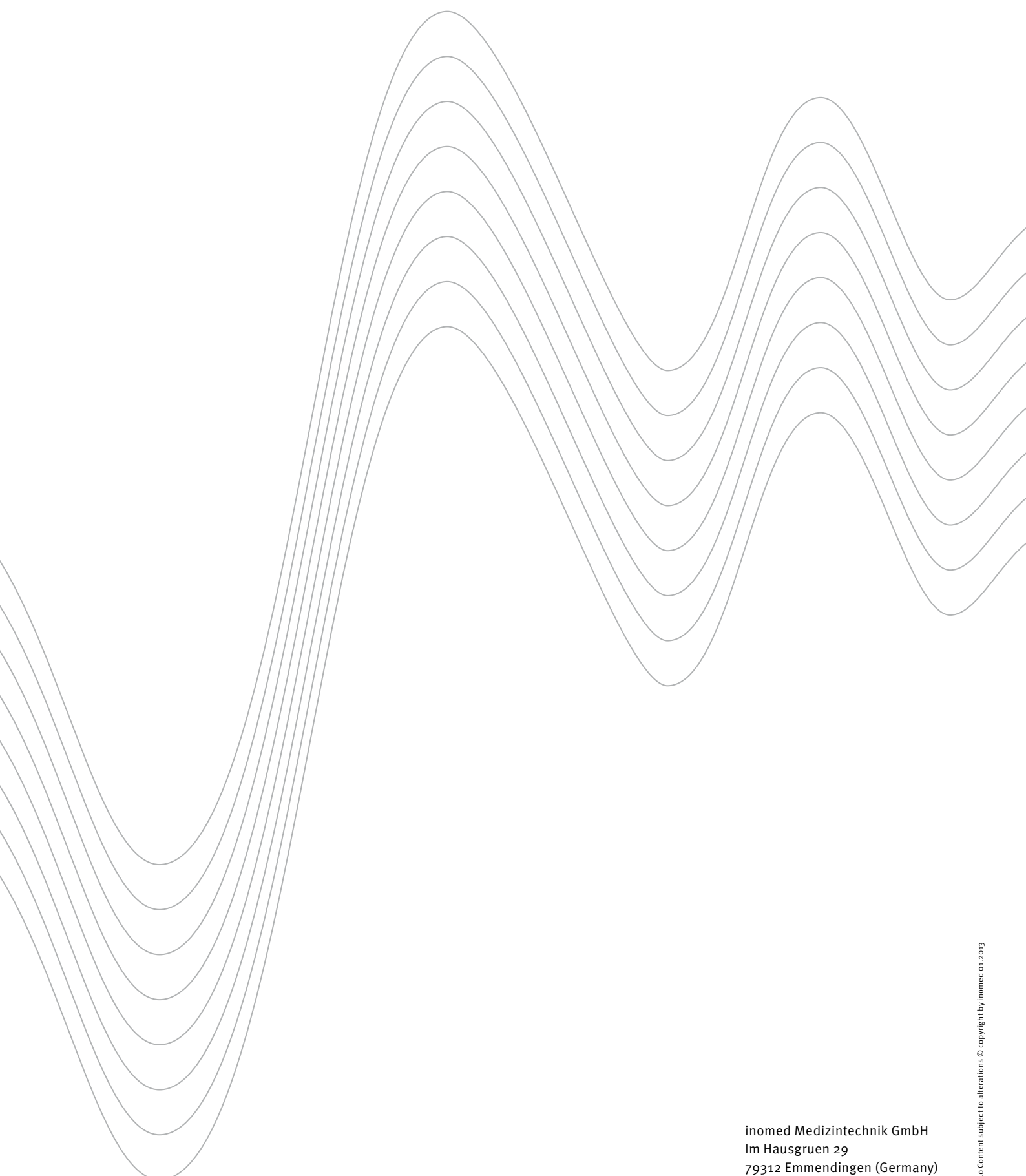
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