



ADVANCED LARYNGEAL MONITORING



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Reliability in recurrent laryngeal nerve monitoring

Combining the synergistic effects of individual key technologies, the unique ALM technology provides a reliable complete solution for RLN monitoring.

With 8 long measuring contacts, instead of the conventional 2 or 4 contacts, the ALM Tube offers optimal signal recording of the vocal muscle. The 360° surface sensor coverage ensures signal stability, independent from tube rotation. The innovative and user-friendly Channel Select Software always selects and displays the strongest signal precisely. All signals are displayed acoustically and visually via the C2 Xplore.

The C2 Xplore is known as a smart specialist for various surgical applications, and is the result of inomed's several years of experience and intensive research in the field of intraoperative neuromonitoring. Especially developed for use in thyroid surgery, the C2 Xplore offers reliability and optimal signal quality in RLN monitoring. These pioneering technologies build an end-to-end solution for innovative and seamless nerve monitoring.

Together with more than 30 years of expertise, ALM represents the most innovative cutting-edge technology in thyroid surgery to date.



Advanced Laryngeal Monitoring

Smart technology for a new dynamic monitoring in thyroid surgery



INTRAOPERATIVE NEUROMONITORING recommended by guidelines

Neuromonitoring is recommended for redo operation in thyroid surgery by the German Society for General and Visceral Surgery – German Association of Endocrine Surgeons.¹ Therefore, documenting the monitoring process and implementing it as rapidly and intuitively as possible are of critical importance in thyroid surgery. The C2 Xplore offers a 2D LED scanner to quickly read patient data from barcodes and even from QR codes, effortless integration of data into the patient management system, and many other possibilities for straightforward and fast reporting. The documentation process is supported by an integrated database, on which all measurement and patient data is stored on a long-term basis. The data can be subsequently recalled at any time.

¹ Deutsche Gesellschaft für Allgemein- und Viszeralchirurgie e.V. (DGAV), Leitlinie Operative Therapie benigner Schilddrüsenerkrankungen, Oktober 2015

> RECORDING

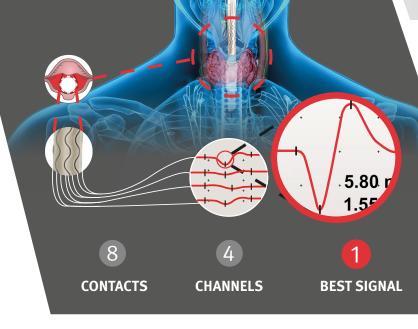
ALM Tube

- >> Multifunctional combination of a clear PVC ET tube and a surface electrode delivers the best possible EMG signal recording from the vocal cords
- Easy placement of the recording electrode at the vocal cords is supported by an extended length of the sensor pads
- Signal stability resulting from the 360° surface sensor coverage with 8 long electrode contacts, even if the tube is rotated or shifted vertically
- >> Clearly visible blue inflation line and pilot balloon to aid the prevention of accidental cutting
- >> Standard size tube
- >> Low profile surface and smooth bevelled tube tip
- Simple connection to monitoring system thanks to a single connector
- >> Multiple depth markers
- >> Cylindrical high volume, low pressure cuff

Laryngeal Electrode Select

- >> Reliable signal recording resulting from the 360° surface sensor coverage with 8 long measuring contacts
- Signal stability due to multiple channel recording and the automatic signal selection by the Select Software
- >> Extended recording surface allows easy placement at the vocal cords
- >> Extraordinary value for money
- >> Can be used **universally** on all PVC tubes



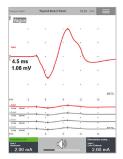


ALM technolog

> SYSTEM

Channel Select

- >> Reliable detection of muscle responses even under poor signal conditions
- >> Automatic selection of the optimal trace from the 4 recording channels of the Laryngeal Electrode Select or the ALM Tube



HL7-ready

>> Network communication based on the HL7 standard for synchronisation with the hospital management system



APPLICATION FIELD Thyroid surgery



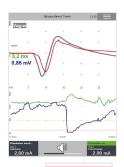


ЗУ

Smart trend function

Continuous recurrent laryngeal nerve monitoring made simple. Trend and alarm functions help to **detect nerve irritations** and early signs of possible nerve impairment. The new nerve detection sound technology provides intuitive feedback for hand-guided stimulation and vagus monitoring.

Up to three alarm thresholds for amplitude and latency can be individually set up in the trend settings. If the limits are exceeded, the user will be notified about the signal changes visually and acoustically. The threshold values can be configured individually with relative or absolute values.





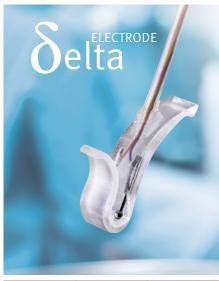


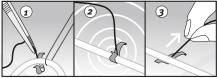


> STIMULATION

DELTA-Electrode

- >> Easy positioning on the vagus nerve
- Simple and secure application on the vagus nerve ensures good contact resulting in a stable signal for continuous monitoring
- >> Easy removal from the vagus nerve thanks to an optimised shape and elasticity of the electrode body





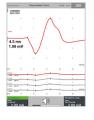


APPLICATION FIELD Thyroid surgery

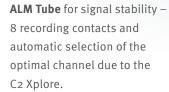


8-contact Laryngeal Electrode Select for EMG signal recording at the vocal cords.





The C₂ Xplore with its **Channel Select Software** acquires, selects and displays the optimum muscle signal.



Stable and reliable continuous vagus monitoring thanks to the specially designed **DELTA-Electrode** from inomed.



All stimulation responses are automatically stored on a long-term basis. Waveforms can be selected for the report during use via the intelligent comment function of the C2 Xplore. For the comment



allocation, comments that have already been set are displayed in an intuitive manner.

Following the surgery, a patient report can be created with one touch to be filed in the patient record at the press of a button. Reports can be generated with or without a trend graph.



Screensho



Smart trend software feature including free

configurable alarm thresholds for continuous vagus monitoring.



Screenshot function for easy and quick creation of screenshots.

ALMAccessories

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Art. No. 508288 C2 Xplore

for intraoperative

neuromonitoring. Easy-to-use 8-channel EMG monitor with 2 integrated stimulators, up to 6 application fields and digital integration in the OR, maximum interconnection online and offline. Mains lead and foot switch included. Can be used in combination with an application package.



Art. No. 508541

Application package Thyroid and ENT with Channel Select for C₂ Xplore

Consisting of software license "Thyroid and ENT", Head Box and license for 4-channel recording.



ALM Tube

for EMG recording, 4 channels, clear PVC tube, Murphy type, latex-free > Single use > EO sterilised

Art. No. 530845 ALM Tube I.D. 7.0, O.D. 9.7 inner diameter of 7 mm

Art. No. 530846 ALM Tube I.D. 7.5, O.D. 10.3 inner diameter of 7.5 mm

Art. No. 530847 ALM Tube I.D. 8.0, O.D. 11.0 inner diameter of 8 mm



Art. No. 522623 DELTA-Electrode with sterile

connection cable Stimulation electrode for continuous vagus monitoring with sterile connection cable > Single use > EO sterilised



Art. No. 530855

Laryngeal Electrode Select for tube with 6-7 mm inner diameter

Adhesive surface 32x29.7 mm, electrode surface 685 mm², with neutral adhesive electrode > Single use > EO sterilised

Art. No. 530856

Laryngeal Electrode Select for tube with 7-9 mm inner diameter Adhesive surface 37x37.6 mm, electrode surface 1057 mm², with neutral adhesive electrode

- > Single use
 - > EO sterilised

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