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АППАРАТЫ ЭМГ

Техническое описание

Ambu's company philosophy has always been the desire to make life easier for doctors and to find innovative products that can save lives. Innovation and entrepreneurship are key for . Always have been. Always will be.



75 years – past, present and future

Ideas may be conceived in one person's head, however, it takes a collaboration of minds to see them evolve into real products.

Since 1937, we have been leading the way in healthcare. We develop ideas whether they arrive through meticulous research or by a clever question asked by a customer. All that matters is that we transform ideas into efficient solutions that work to our customer's advantage and improve patient safety.

We listen to your needs

Our desire to listen to the needs of healthcare professionals has been the driving force behind the development of the bag, the Blue Sensor® electrodes or the world's first single-use videoscope, the aScope™.

devices are used every day to rescue, revive, diagnose, monitor or train. We are proud of this. But our products do nothing on their own. They are only useful in the skilled hands of doctors, nurses and paramedics around the world.

Next 75 years

Our customers tell us that they need reliable high-quality products ready for immediate use. They expect excellent service and on-time delivery. They need innovation to help improve patient outcomes and optimise efficiency. They want training and clinically meaningful evidence.

Above all, our customers want us to truly understand the challenges of their patient care and to collaborate on the development of future solutions.

We are determined to continue to develop best-in-class products and the services you expect for your work each and every day. We do it now and we will do so for many decades to come.

Fields of Excellence

Anaesthesia

With the innovative development of the first self-inflating resuscitator, the " bag" in 1956, forever changed the history of saving lives. Now more than half a century later we are still dedicated to the development of innovative products that help save lives and simplify workflow and the daily life of the anaesthetists to the benefit of the patients.

Within the field of anaesthesia offers a wide range of products from resuscitators, face masks and laryngeal masks to the highly innovative single use flexible intubation scope. Products that all have their own place in the difficult airway algorithm.

Emergency Care

We consistently focus on developing new devices to improve patient care and make the work of our customers easier. In the field of emergency care we offer a broad assortment of products, from resuscitators, suction pumps and CPR barriers to our well-known training manikins and immobilisation devices.

Patient Monitoring & Diagnostics

In 1971, a Danish engineer by the name of Jan Rasmussen recognized the need to obtain reliable traces from biosignals. Since then we have been leading the way in the design and development of high quality single-use electrodes for accurate diagnosis.

offers a complete range of electrodes for different applications to meet your needs.

Ambu's commitment to quality

products are designed and manufactured to comply with all relevant internationally recognised standards. Our entire organisation is committed to providing products that match the high expectations of users and patients, fully meet the requirements defined by standards and guidelines.

The quality management system operates under ongoing consideration for maintaining ISO 13485 quality management system certification, and is subject to regular inspections by the regulatory authorities in compliance with the international standard for medical device manufacturers.

Our commitment to quality includes an ongoing effort to improve on feedback, and forward product requests from our customers.



® Neuroline Subdermal


Single-patient EEG Needle

Features and Benefits:

- Lancet-cut, ultra-sharp tip for low penetration resistance
- Low noise and impedance level giving a clear and reliable signal
- Stainless steel needle perfectly optimised for both strength and flexibility
- Colour-coded lead-wires: white, green, blue, yellow, red and black
- Available with different lead wire lengths
- Conveniently packed in individual pouches.
- EO-sterilized

Neuroline Subdermal

Ordering Information

| Item No. | Lead-wire length (cm) | Needle length (mm) | Calibre (mm) / gauge no. | Lead-wire colour | Shelf life (months - unopened) | Quantity (per box) |
|---------------|-----------------------|--------------------|--------------------------|---|--------------------------------|--------------------|
| 745 12-50/24 | 50 | 12 | 0.40 27G |  | 60 | 24 |
| 745 12-100/24 | 100 | 12 | 0.40 27G | | 60 | 24 |
| 745 12-150/24 | 150 | 12 | 0.40 27G | | 60 | 24 |
| 745 12-250/24 | 250 | 12 | 0.40 27G | | 60 | 24 |

M- connector - 1.5 mm

Electrodes are packed in individual pouches. 24 pouches per box.

Each box of 24 consists of 4 pieces in each of the colours white, green, blue, yellow, red and black.


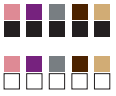


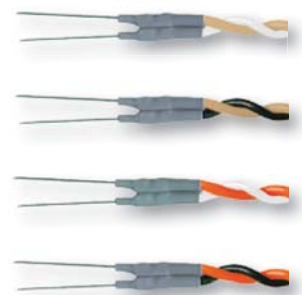
Features and Benefits:

- Lancet-cut, ultra-sharp tip for low penetration resistance
- Low noise and impedance level giving a clear and reliable signal
- Stainless steel needle perfectly optimised for both strength and flexibility
- Choice of different coloured lead-wires
- Conveniently packed: 1 pair in a pouch. 20 pouches in a box
- EO-sterilized

Neuroline Subdermal Twisted Pair

Ordering Information

| Item No. | Lead-wire length (cm) | Needle length (mm) | Calibre (mm) / gauge no. | Lead-wire colour | Shelf life (months - unopened) | Quantity (per box) |
|----------------|-----------------------|--------------------|--------------------------|---|--------------------------------|--------------------|
| 74612-100/1/20 | 100 | 12 | 0.40 27G |  | 60 | 20 |
| 74612-150/1/20 | 150 | 12 | 0.40 27G | | 60 | 20 |
| 74612-200/1/20 | 200 | 12 | 0.40 27G | | 60 | 20 |
| 74612-250/1/20 | 250 | 12 | 0.40 27G | | 60 | 20 |
| 74612-100/2/20 | 100 | 12 | 0.40 27G |  | 60 | 20 |
| 74612-150/2/20 | 150 | 12 | 0.40 27G | | 60 | 20 |
| 74612-200/2/20 | 200 | 12 | 0.40 27G | | 60 | 20 |
| 74612-250/2/20 | 250 | 12 | 0.40 27G | | 60 | 20 |



® Neuroline Concentric

Single-patient EMG Needle

Features and Benefits:

- Precision-centred silver sensor ensures uniform, reliable recordings
- Outstanding sharpness provides smooth skin penetration and greater patient comfort
- Ergonomic colour-coded hub design for ease of use
- Tactile index mark on hub for easy identification of the bevel position
- Orientation-free connection to Neuroline Concentric cables, for ease of use
- High signal quality with low impedance for strong, reliable recordings

Neuroline Concentric

Ordering Information

| Item No. | Length (mm) / (inch) | Calibre (mm) / gauge no. | Shelf life (months - unopened) | Recording area (mm ²) | Quantity (per box) |
|--------------|-------------------------|--------------------------------|--------------------------------------|---|-----------------------|
| 740 25-30/25 | 25 1" | 0.30 30G | 36 | 0.02 | 25 |
| 740 25-45/25 | 25 1" | 0.45 26G | 36 | 0.07 | 25 |
| 740 30-35/25 | 30 1.2" | 0.35 28G | 36 | 0.02 | 25 |
| 740 38-45/25 | 38 1.5" | 0.45 26G | 36 | 0.07 | 25 |
| 740 50-45/25 | 50 2" | 0.45 26G | 36 | 0.07 | 25 |
| 740 75-65/25 | 75 3" | 0.65 23G | 36 | 0.07 | 25 |

Cable with 5 pin DIN connector



® Neuroline Monopolar

Single-patient EMG Needle Electrode

Features and Benefits:

- Tip superior in its sharpness for low penetration resistance
- Extra-smooth coating for low friction and improved patient comfort
- Ergonomic hub design for easy and secure grip
- Wide range of colour-coded sizes to meet your needs
- Available with or without pre-attached lead-wire

Neuroline Monopolar

Ordering Information

| Item No. without lead-wires | Item No. with lead wires | Length (mm) / (inch) | Calibre (mm) / gauge no. | Shelf life (months - unopened) | Quantity (per box) |
|-----------------------------------|--------------------------------|-------------------------|--------------------------------|--------------------------------------|-----------------------|
| 742 25-36/40 | 743 25-36/40 | 25 1" | 0.36 28G | 36 | 40 |
| 742 38-36/40 | 743 38-36/40 | 38 1.5" | 0.36 28G | 36 | 40 |
| 742 38-45/40 | 743 38-45/40 | 38 1.5" | 0.45 26G | 36 | 40 |
| 742 50-45/40 | 743 50-45/40 | 50 2" | 0.45 26G | 36 | 40 |
| 742 75-50/40 | 743 75-50/40 | 75 3" | 0.50 25G | 36 | 40 |

K - connector - 1.5 mm



® Neuroline Inoject Single-patient EMG Needle

Features and Benefits:

- Ultra sharp point for easy skin penetration
- Stainless steel needle with a smooth electrical insulator for low friction and optimum patient comfort
- Luer-Lock fitting provides secure connection with the syringe
- Ergonomic colour coded hub for easy handling
- Available in 6 convenient sizes

Neuroline Inoject Ordering Information

| Item No. | Length (mm) / (inch) | | Calibre (mm) / gauge no. | | Shelf life (months - unopened) | Quantity (per box) |
|--------------|-------------------------|------|--------------------------------|-----|--------------------------------------|-----------------------|
| 744 25-30/10 | 25 | 1" | 0.30 | 30G | 60 | 10 |
| 744 30-36/10 | 30 | 1.2" | 0.36 | 28G | 60 | 10 |
| 744 35-40/10 | 35 | 1.4" | 0.40 | 27G | 60 | 10 |
| 744 38-45/10 | 38 | 1.5" | 0.45 | 26G | 60 | 10 |
| 744 50-50/10 | 50 | 2" | 0.50 | 25G | 60 | 10 |
| 744 75-55/10 | 75 | 3" | 0.55 | 24G | 60 | 10 |

K - connector - 1.5 mm



® Neuroline Cup Electrode Single-patient EEG/EP Cup Electrode

Features and Benefits:

- Advanced silver/silver chloride sensor ensures uniform high signal quality
- Pre-attached, tangle-free lead-wires
- Fixation wings for ease of use
- Convenient 2 mm hole allows gel to escape during positioning and permits blunt needle insertion
- Disposable cups and lead wires eliminate the risk of cross-contamination
- Can be used with most popular gels, pastes and adhesives

Neuroline Cup Electrode Ordering Information

| Item No. | Lead-wire length (cm) / (inch) | | Colour | Shelf life (months - unopened / open pouches) | | Quantity (per box) |
|-------------|--------------------------------------|-----|--------|---|---|-----------------------|
| 726 10-M/10 | 100 | 40" | | 24 | 1 | 460 |
| 726 15-M/10 | 150 | 60" | | 24 | 1 | 460 |

M- connector - 1.5 mm



® IOM Corkscrew Electrode Single-patient IOM Needle

The corkscrew needle is designed to stay in place for EEG or EP monitoring during surgery. Easy to insert, it provides a high quality signal. 24 disposable electrodes with 6 lead-wire colours (red, black, blue, yellow, white and green) in one package.

Features and Benefits:

- Stainless Steel cork screw needles
- Easy to grip protective sleeves
- 120 cm Tangle-free lead-wire
- 1.2 mm Touch-proof connectors
- 100% Disposable
- Individual Sterile Packaging
- 6 easy to identify colours
- Ideal for IOM, EEG and EP



IOM Corkscrew Electrode Ordering Information

| Item No. | Description | Quantity (per box) |
|-------------|---------------------------------|--------------------|
| 74715-60/24 | Disposable Corkscrew Electrodes | 24 |

® IOM Stimulation Probes Single-patient Stimulation Probes

Features and Benefits:

- Single piece design for optimal performance. Handle, wire and tip all connected
- 1.5 mm Touch-proof connector
- All probes are 100 mm in length
- 1.9 meter attached cable
- Teflon coated Pedicle Screw, Monopolar, Concentric and Bi-polar probes
- Individually packaged and sterilized
- Single Patient Use
- 10 probes per box

IOM Stimulation Probes Ordering Information

| Item No. | Description | Quantity (per box) |
|--------------|---------------|--------------------|
| 73600-190/10 | Pedicle Screw | 10 |
| 73603-190/10 | Concentric | 10 |
| 73601-190/10 | Monopolar | 10 |
| 73602-190/10 | Bipolar | 10 |



® Neuroline Surface Electrodes

The solid gel surface electrodes are self-adhesive and are both easy to reposition and remarkably comfortable for patients. They feature a high quality silver/silver chloride sensor for optimum signal quality. The solid gel, combined with an effective adhesive, allows technicians to locate the best recording site without leaving gel deposits that must be wiped off. The adhesive is specially formulated so it will not irritate sensitive or damaged skin.

Neuroline 700 and 710

Ordering Information

| Item No. | Lead-wire length (cm) | Shelf life | | Quantity (per box) |
|---------------|--------------------------|------------------------------------|---|-----------------------|
| | | (months - unopened / open pouches) | | |
| 700 01-K/12 | 10 | 18 | 1 | 240 |
| 700 01-SC/12 | 10 | 18 | 1 | 240 |
| 700 05-K/12 | 50 | 18 | 1 | 240 |
| 700 10/12 | 100 | 18 | 1 | 120 |
| 700 10-K/12 | 100 | 18 | 1 | 120 |
| 700 10-K/C/12 | 100 | 18 | 1 | 120 |
| 700 15-K/12 | 150 | 18 | 1 | 120 |
| 700 15-K/C/12 | 150 | 18 | 1 | 120 |
| 710 01-SC/12 | 10 | 18 | 1 | 240 |
| 710 05-K/C/12 | 50 | 18 | 1 | 240 |
| 710 10-J/12 | 100 | 18 | 1 | 120 |
| 710 10-K/12 | 100 | 18 | 1 | 120 |
| 710 15-K/12 | 150 | 18 | 1 | 120 |
| 710 15-K/C/12 | 150 | 18 | 1 | 120 |



700



710

The oblong shaped 720 wet gel electrode is ideal for long-term use. The strong adhesion ensures the electrode will stay in place despite sweat, hair or oily skin.

Neuroline 720

Ordering Information

| Item No. | Lead-wire length (cm) | Shelf life | | Quantity (per box) |
|-------------|--------------------------|------------------------------------|---|-----------------------|
| | | (months - unopened / open pouches) | | |
| 720 01-K/12 | 10 | 12 | 1 | 240 |
| 720 10-K/10 | 100 | 12 | 1 | 420 |
| 720 15-K/10 | 150 | 12 | 1 | 420 |
| 720 00-S/25 | - | 24 | 1 | 1000 |



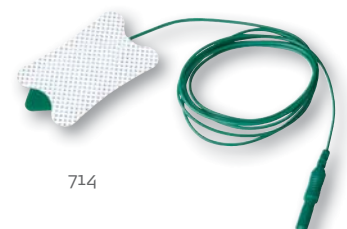
720

Solid gel, 100% disposable 714 ground electrode. Convenient pull tab for easy relocation. Green tangle-free wire-with 1.5mm touch proof connector. Available with 40" and 60" lead-wire. 1 per pack

Neuroline Ground 714

Ordering Information

| Item No. | Lead-wire length (cm) | Colour | Shelf life | | Quantity (per box) |
|------------|--------------------------|--------|------------------------------------|---|-----------------------|
| | | | (months - unopened / open pouches) | | |
| 714 10-M/1 | 100 | ■ | 18 | - | 25 |
| 714 15-M/1 | 150 | ■ | 18 | - | 25 |



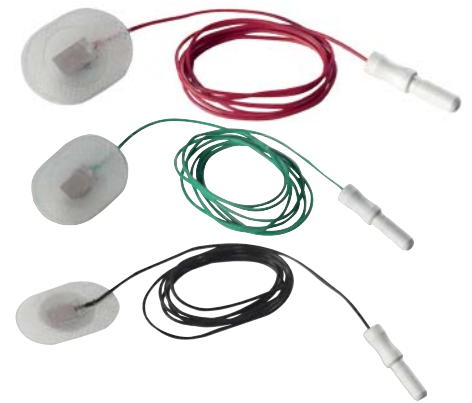
714

® Neuroline Surface Electrode 715 Solid

Gel Electrode

Features and Benefits:

- Transparent backing allows precise placement of sensor over the target area
- High quality silver/silver chloride sensor for optimal signal quality
- Repositionable
- Wound lead wires for easier handling



Neuroline Surface Electrode 715

Ordering Information

| Item No. | Lead-wire length (cm) / (inch) | | Colour | Shelf life (months - unopened / open pouches) | | Quantity (per box) |
|---------------|-----------------------------------|-----|--------|---|---|-----------------------|
| | | | | | | |
| 715 05-K/C/12 | 50 | 20" | ■ ■ ■ | 24 | 1 | 240 |
| 715 08-K/C/12 | 80 | 32" | | 24 | 1 | 120 |
| 715 12-K/C/12 | 120 | 48" | | 24 | 1 | 120 |
| 715 20-K/C/12 | 200 | 79" | | 24 | 1 | 120 |



Cables for ® Neuroline Concentric EMG Needle Electrodes

The reusable needle cable has a 'no orientation' connection to the needle and a 5 pin 2700 DIN connector for equipment. The cable is a strong, yet flexible, shielded wire for superior signal quality, low cable memory, high durability and greater ease of use. Cables are available in lengths of 40" (1 m) and 80" (2 m) and fit most EMG equipment.



Cables for Neuroline Concentric EMG Needle Electrodes

Ordering Information

| Item No. | Length (cm) | Type |
|----------|----------------|-----------------------------------|
| 1741 | 100 | DIN cable fits most EMG equipment |
| 1742 | 200 | DIN cable fits most EMG equipment |

Myoguide™

Portable, Powerful, Accurate

Myoguide is a hand held guidance system that enables clinicians to see and hear, as well as challenge the injection sites before any treatment is delivered or drug is injected. Myoguide can be instrumental in improving treatment outcomes and reducing side effects in a number of very important clinical areas.

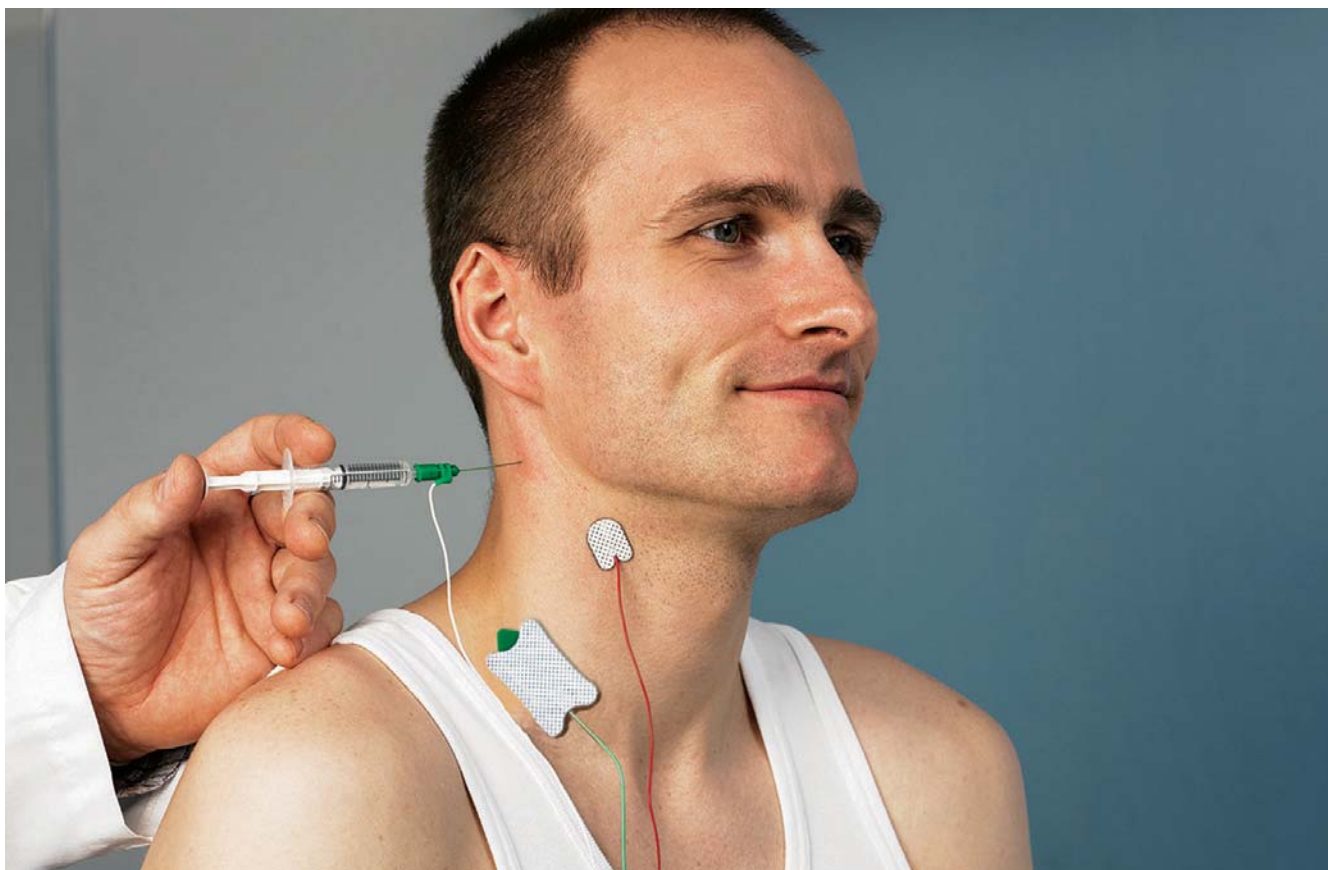
High fidelity EMG audio, a well featured, powerful stimulator and EMG signal display are all integrated into a battery operated, compact hand held package.

Myoguide embodies innovation, value and performance in the palm of your hand. Myoguide battery-powered hand held provides superior injection site targeting through its ability to detect and display the EMG signals characteristically emitted by these hidden pain sources. Clinicians can see and hear EMG activity.

Myoguide provides both quantitative and qualitative feedback necessary for clinicians to make decisions about treatment and treatment delivery.



Distributed
by





Portable

Compact and portable, enabling the user to easily increase treatment efficacy and reduce side effects.



Powerful

EMG amplifier, stimulator, signal display for raw and processed EMG signals and an EMG audio section.



Accurate

Better site selection and increased accuracy may lead to reduced drug dosages.

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