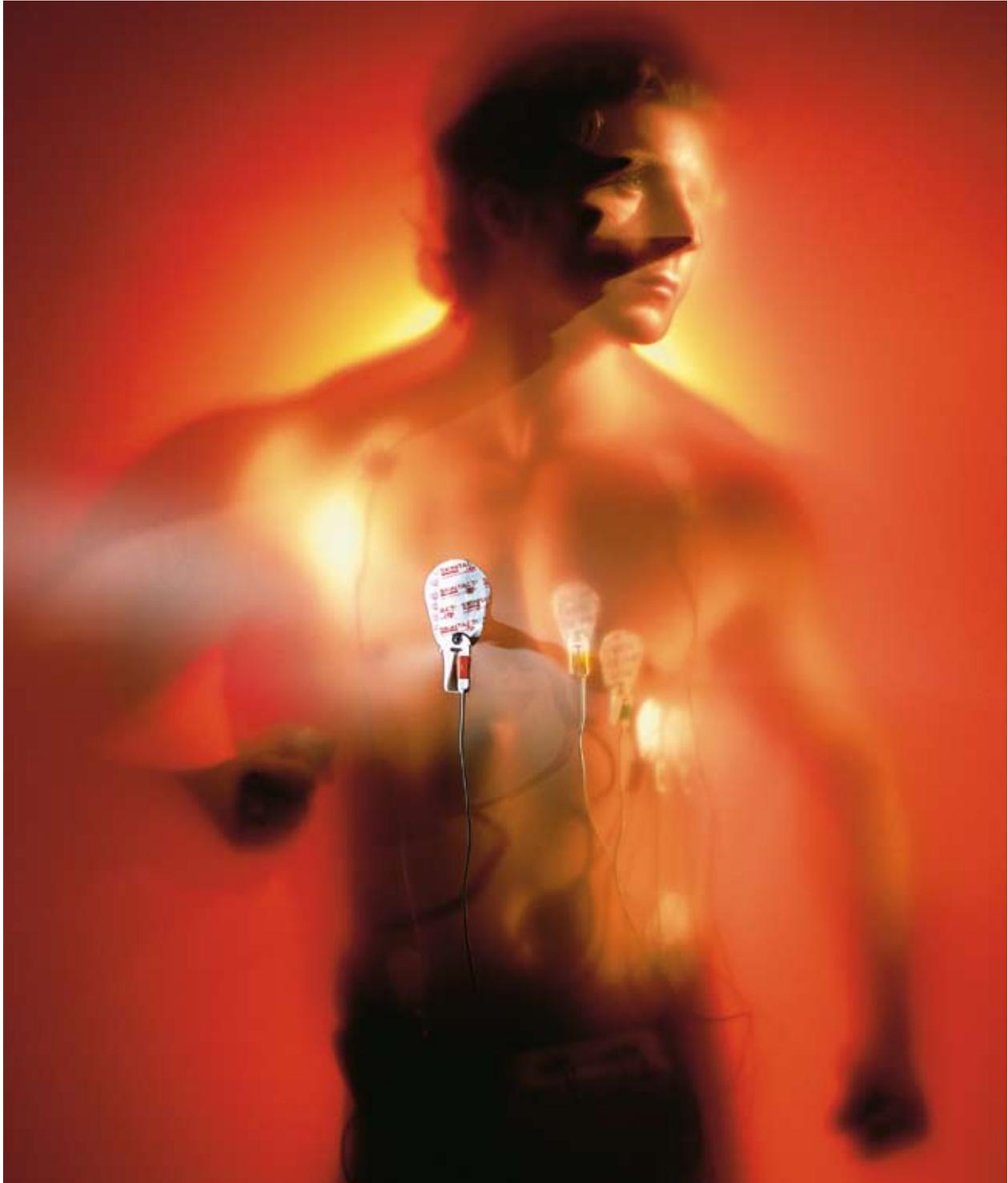


Connect with quality



SKINTACT®


Excellent quality ECG recordings are dependent on three main factors: good skin preparation, superior

Raising the standards in Electrode Technology

unbroken electrical pathway from the skin to the ECG machine.

Electrodes often have to perform under very strenuous conditions, therefore at Leonhard Lang we dedicate valuable time and attention to the design and construction of our electrodes; we then carefully select only the finest quality materials and component parts to produce them.

quality electrodes, and a continuous

Uniquely, we design and build our own machines that are state of the art in manufacturing technology ensuring you quality products that are second to none.

“Connect with quality” is our motto and our goal is to provide you with consistently reliable ECG electrodes.

Our no compromise attitude to quality and choice at very competitive prices, undoubtedly is Raising the standards in ECG technology.

C-LINE stands for “Cured on line”. By curing on line Leonhard Lang can deploy materials or properties

Introducing C-LINE technology

only where they are needed in a product, bringing you the freshest possible electrodes. This technology is also easy on the environment as it does not waste resources. Our Aqua-Tac electrodes in particular benefit from C-LINE. They are the next generation in hydrogel technology and bring together the instant pickup of signal you demand with the durability, quality of trace and dependability required for longer procedures. This is achieved by curing the hydrogel on line unlike many conventional manufacturers who

produce or buy their hydrogel in rolls first and then manufacture the product. By the time their product is produced a certain degree of dry out of the gel has already occurred. C-LINE combines the manufacture of the hydrogel and the electrode all in one, significantly reducing cost which is why our electrodes are very competitively priced and as fresh as can be.

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The choice of sensors is critical to the performance of an electrode. SKINTACT electrodes only incorporate

Sensors

sensor systems of superior electrical properties and contact quality.

In SKINTACT standard snap electrodes only the highest quality durable stainless steel studs are used. They are machined to tolerances, which create minimum wear on your lead wires. All eyelets have an Ag/AgCl layer. With C-LINE technology AgCl is only placed at the interface to the gel in Aqua-Wet and Aqua-Set electrodes to prevent corrosive effects and to maintain undiminished quality for the duration of their shelf life.



SKINTACT carbon snap electrodes are transparent (but not invisible) to X-rays and during magnetic resonance imaging. However, a micro Ag/AgCl layer assures full compliance with the AAMI standard for disposable ECG electrodes.

For tab and adaptor electrodes carbon contact interfaces are provided with surfaces that are smooth to touch yet low in impedance.

Gels

As the requirements for short term procedures are so different to the ones needed for long term monitoring Leonhard Lang has developed a range of conductive mediums specific to these applications. Our gels have excellent pick up capabilities and provide reliable quality recordings with minimal skin reactions to the patient.

AQUA-WET: Liquid gels designed for fast pick up of the ECG signal even if inadequate skin prep is carried out.

Aqua-Wet electrodes are an ideal

choice for short term procedures. They give dependable quick tracing with easy application and removal.

AQUA-SET: A solid wet gel designed for long term procedures and stress testing. Aqua-Set electrodes offer longer lasting performance. Due to the solid wet gel formulation these electrodes are



an ideal choice for long term monitoring. Our specially formulated conductive medium has excellent electrical response and due to its aqueous nature provides a quick reduction of skin impedance producing excellent quality recordings and stable baselines. Its semi-solid nature also helps reduce motion artefacts. Furthermore, they are less prone to gel dry out and can be pressed in the centre without the risk of gel spreading onto the adhesive.

AQUA-TAC: The next generation in hydrogel electrodes. Aqua-Tac electrodes are fast becoming the choice in long and short term procedures. Solid adhesive Aqua-Tac offers the best of both worlds i.e. quick pick up even if inadequate skin prep is carried out, and provides consistently high quality recordings for long term monitoring with minimal skin reactions.

Aqua-Tac also gives the added benefit of 100% skin surface contact.



Backings

There is a combination of SKINTACT adhesives and backings to meet the requirements of every major application. Versatile SKINTACT electrodes are available with four backings:

Demanding applications such as anaesthesia, emergency care, and stress tests put electrode stability and reliability to the test. Foam backing materials protect sensor and gel from surgical and cleaning fluids. The thin foam layer permits maximum flexibility.

Skin-friendly microporous tape adapts well to body contours, increasing comfort. Tape-backed SKINTACT



foam



tape



cloth



clear tape

electrodes promote breathability and transpiration, important in long term applications.

Soft cloth backing offers many of the benefits of tape plus added elasticity to conform to most body movements. Cloth-backed SKINTACT electrodes provide the long term comfort and durability required by active patients.

Clear tape backing combines sensor area protection against fluids and some breathability through its perforation. In addition, being transparent it permits constant skin observation.

Packaging

Water contents in a gel is crucial for its electrical and – in case of hydrogels – its adhesive performance. In order to ensure that our products reach you in the freshest possible

state and keep their superior performance quality for all their shelf-life SKINTACT electrodes are packed immediately after they are produced into steamproof aluminium pouches.

We at Leonhard Lang have long been believers that user concerns and ideas for improvement are as important to us as producing high quality performing electrodes. Many of the changes we make come from suggestions that you, the user, raise. All SKINTACT electrodes now offer:

User convenience

- easy to tear open pouches which can be folded over after use
- quick and easy stripping away of electrodes from the backing liner
- non-adhesive tabs making removal of electrodes quick and comfortable also for the patient.

All SKINTACT electrodes are Latex free.

Only high quality stainless steel snaps are used in SKINTACT electrodes instead of nickelplated ones that some of the other manufacturers use.

As SKINTACT electrodes are made from environmentally friendly materials they can be disposed of using standard waste disposal procedures unless clinical protocol requires differently.



In order to achieve high quality results even during the most demanding ECG procedures an electrode made of impermeable materials with enhanced adhesive is needed. These might strain

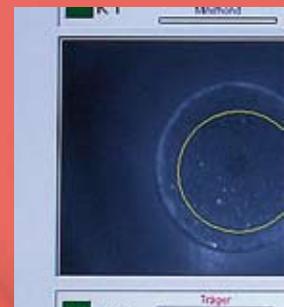
Patient comfort

the skin, though. Avoiding skin trauma, SKINTACT electrodes are designed and manufactured using

only proven biocompatible materials that provide the quality you expect, yet are kind to the patient's skin.

Performance and safety of all SKINTACT electrodes and other ECG products have been designed and stringently tested according to all applicable standards. All SKINTACT ECG electrodes meet ANSI/AAMI EC12 on disposable ECG electrodes, ISO 10993 on biocompatibility and the European Medical Device Directive.

Performance and safety



Following our philosophy to provide the highest quality connections to any ECG procedures

Additional ECG products

Leonhard Lang offers additional ECG products. **SKINTACT Easiprep** is a highly effective product to remove unwanted dead skin cells to reduce skin impedance, essential for producing excellent quality recordings for diagnostic purposes. The mild sandpaper pad is easy to use and comfortable for the patient. Excessive hair can be shaved off with **SKINTACT Prep Razors**, a high quality razor with a patented minimum trauma design.

SKINTACT Easiclips are designed to meet all our tab-ended products perfectly, providing secure contact. They can be rotated on the patient to sit flat minimising movement during recording procedures.

Durable **ECG lead wires, cables** and **chart paper** for ECG recordings are available on request.



SKINZIT



Leonhard Lang

From our global headquarters nestled in the Austrian Alps we are building on more than a century of quality-focused production and service. At the same time, we are meeting tomorrow's challenges with often patented advances in product design, keeping us at the cutting edge of technology and user-driven research and development.

We design, manufacture and distribute products for ECG, electrosurgery, defibrillation, and stimulation as well as gels and fixations.

As part of our continued commitment to provide the highest quality service and products and our desire

to be able to continue to listen and meet your future requirements, Leonhard Lang has created Leonhard Lang UK and Leonhard Lang USA and formed strong partnerships with Dorvit in France, ID&CO in Italy and other companies of high renown around the world.

To justify your trust our quality management system is certified according to ISO 9001, ISO 13485 and for some product lines to Annex II of the European Medical Device Directive. We also operate an environmental management system certified to ISO 14001.



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