EDGE SYSTEM™ ELECTRODES

The Standard in Multifunction Electrodes
We know your number one goal is to provide the best in patient care by reducing time to treatment, increasing patient comfort and ensuring patient safety.
Improve patient care

From the time a patient is resuscitated on scene to the time the patient is released from the hospital, the patient may change providers and equipment several times. During the entire resuscitation chain, you need a quality therapy electrode that works like you work, with the patient in mind. EDGE System electrodes are multifunctional — enabling defibrillation, noninvasive pacing and ECG monitoring all in one and offering many advantages over other therapy electrodes in the market.

Increase patient comfort
Decrease skin irritation
Increase patient safety
Minimize delay in therapy
Increase patient comfort and safety, decrease skin irritation

Skin-friendly hydrogel
- Designed to bond well to all skin textures
- Excellent adhesion to prevent electrode from detaching or lifting from the skin
- Excellent adhesion to diaphoretic patients
- Excellent electrical performance during pacing and defibrillation

The unique Edge design reduces the risk of burns commonly associated with defibrillation. The EDGE System electrode is designed to distribute the current over the entire surface area of the electrode using patented technology rather than concentrating it at the edges.

High edge impedance
- Allows for even heat distribution which may reduce the risk of burns

Thermographic images taken after eight consecutive 360J MDS (Monophasic Damped Sine) discharges. White indicates highest concentration of heat, where burning of the skin may occur. Blue indicates lower heat concentration. Monophasic Damped Sine shocks have higher peak currents than those of biphasic shocks and therefore may represent a more extreme case, however they are still useful in illustrating heat distribution.

Reduced skin damage
High perimeter impedance reduced skin injury after cardioversion

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<tr>
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<th>EDGE System Electrode</th>
<th>Standard Electrode</th>
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<tr>
<td>Damage score*</td>
<td>1.7</td>
<td>3.1</td>
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*Damage score is based on histopathologic tissue evaluation from samples taken after cardioversion with monophasic waveforms. The dermatopathologist was blinded to the energy or electrode technology used.

Patient safety—tested, proven
Ensure the safety of your staff and patients. Electrodes should be attached to your manual LIFEPAK defibrillator’s original, unmodified therapy cable. Modified cables may not meet Physio-Control specifications and may invalidate product warranty. Other manufacturers’ electrodes have not been tested to the stringent LIFEPAK specifications and may compromise patient or rescuer safety. Stick with the name you trust and the company that stands behind it.
High edge impendence allows for even heat distribution which may reduce the risk of burns.
Minimize delay in therapy

Standardization across all levels of care

Standardization across all levels of care is a critical factor in enabling you to respond quickly to initiate early defibrillation, minimize delays in therapy and provide your patient with the best chance of survival. This continuum of care extends from the defibrillator to the therapy electrodes you use.

Standardization is easy

EDGE System multifunction electrodes with the universal QUIK-COMBO connector allow you to plug them into any LIFEPAK device. Eliminate the need for electrode changes between phases of treatment and potentially reduce costs associated with applying multiple sets of electrodes to a single patient.

Shorten door to balloon time

Your goal is a less than 90-minute door to balloon (D2B) time to improve survival among the half-million Americans who experience ST-segment elevation myocardial infarction (STEMI) each year.2 EDGE System RTS radio-transparent electrodes will not interfere with visibility and may eliminate time spent repositioning x-ray images.
Eliminate the need for electrode changes between phases of treatment
EDGE System Multifunction Electrodes
Pacing, Defibrillation and ECG Monitoring

Preconnected. 24 hours of ECG monitoring

EDGE System electrodes can perform up to 24 hours of ECG monitoring and deliver up to 50 shocks at 360J (25 for pediatric size electrodes) all while obtaining excellent adhesion to the patient.

EDGE System electrodes with REDI-PAK™ preconnect system allow connection to your LIFEPAK defibrillator/monitor prior to use, saving valuable time and potentially reducing time to shock during a code.

Pediatric and infant/child options

EDGE System electrodes are available in pediatric sizes for use with manual monitor/defibrillators. We also offer Infant/Child Reduced Energy Defibrillation Electrodes that can be used with our LIFEPAK AEDs.

Radio-transparent

EDGE System RTS Adult and Pediatric Electrodes are completely radio-transparent, eliminating the need to remove or change the electrodes during radiological procedures.
**SPECIFICATIONS**

**ADULT**

EDGE System Electrode with QUIK-COMBO Connector and REDI-PAK Preconnect System
Catalog Number 11996-000017

Electrode: Rectangular
Electrode Size: 15.1cm (5.95 in) x 13.3cm (5.24 in)
Lead Wire: 105.2cm (42 in)
Conductive Adhesive Gel Contact Area: 115cm² (17.98 in²)

EDGE System RTS Electrode with QUIK-COMBO Connector
Catalog Number 11996-000090

Electrode: Rectangular
Electrode Size: 15.1cm (5.95 in) x 13.3cm (5.24 in)
Lead Wire: 60.1cm (24 in)
Conductive Adhesive Gel Contact Area: 115cm² (17.98 in²)

EDGE System Electrode with QUIK-COMBO Connector
Catalog Number 11996-000091

Electrode: Rectangular
Electrode Size: 15.1cm (5.95 in) x 13.3cm (5.24 in)
Lead Wire: N/A
Conductive Adhesive Gel Contact Area: 115cm² (17.98 in²)

EDGE System Electrode with FAST-PATCH® Connector
Catalog Number 11996-000092

Electrode: Rectangular
Electrode Size: 15.1cm (5.95 in) x 13.3cm (5.24 in)
Lead Wire: N/A
Conductive Adhesive Gel Contact Area: 115cm² (17.98 in²)

EDGE System Electrode with FAST-PATCH® Connector
To pace use QUIK-COMBO configured devices with cable:
Catalog Number 11110-000052 (inside U.S.)
Catalog Number 11110-000053 (outside U.S.)

Electrode: Rectangular
Electrode Size: 15.1cm (5.95 in) x 13.3cm (5.24 in)
Lead Wire: N/A
Conductive Adhesive Gel Contact Area: 115cm² (17.98 in²)

QUIK-PACE® Noninvasive Pacing Electrodes with EDGE System Technology
Catalog Number 11996-000042

Electrode: Circular
Electrode Size: 13.3cm (5.24 in) diameter
Lead Wire: N/A
Conductive Adhesive Gel Contact Area: 81cm² (12.56 in²)

QUIK-PACE Noninvasive Pacing Electrodes cannot be used for defibrillation.
Shelf-life: guaranteed 12 months remaining at time of shipment from Physio-Control.

**PEDIATRIC**

Pediatric EDGE System RTS Electrode with QUIK-COMBO Connector
Catalog Number 11996-000093

Electrode Shape: Rectangular
Electrode Size: 10.2cm (4.0 in) x 8.9cm (3.5 in)
Lead Wire: 60.1cm (24 in)
Conductive Adhesive Gel Contact Area: 52cm² (8.06 in²)
Compatibility: Use only with manual defibrillator/monitor

For use on children up to 15kg (33 lbs).
Shelf-life: guaranteed 12 months remaining at time of shipment from Physio-Control.

Infant/Child Reduced Energy Defibrillation Electrodes
Catalog Number 11101-000017

Electrode Shape: Rectangular
Electrode Size: 10.2cm (4.0 in) x 8.9cm (3.5 in)
Lead Wire: 106.7cm (42 in)
Conductive Adhesive Gel Contact Area: 52cm² (8.06 in²)
Compatibility: Use only with LIFEPAK 500 AEDs with a pink connector or any LIFEPAK CR Plus, LIFEPAK EXPRESS or LIFEPAK 1000 defibrillator

Infant/Child Reduced Energy Defibrillation Electrodes
Catalog Number 11101-000016

Electrode Shape: Rectangular
Electrode Size: 10.2cm (4.0 in) x 8.9cm (3.5 in)
Lead Wire: 106.7cm (42 in)
Conductive Adhesive Gel Contact Area: 52cm² (8.06 in²)
Compatibility: Use only with LIFEPAK 500 AEDs with a pink connector or any LIFEPAK CR Plus, LIFEPAK EXPRESS or LIFEPAK 1000 defibrillator

Infant/Child Reduced Energy Defibrillation Electrodes
Catalog Number 11101-000018

Electrode Shape: Rectangular
Electrode Size: 10.2cm (4.0 in) x 8.9cm (3.5 in)
Lead Wire: 106.7cm (42 in)
Conductive Adhesive Gel Contact Area: 52cm² (8.06 in²)
Compatibility: Use only with LIFEPAK 500 AEDs with a pink connector or any LIFEPAK CR Plus, LIFEPAK EXPRESS or LIFEPAK 1000 defibrillator

**PERFORMANCE**

(Appplies to all products, unless otherwise noted.)

**Maximum Adhesion Time:** 24 hours
**Maximum ECG Monitoring Time:** 24 hours
**Maximum Number of Defibrillation Pulses:** 50 at 360 joules for adult size electrodes, 25 for pediatric size electrodes
**Maximum Pacing Duration:** 8 hours
**Shelf-life:** Guaranteed 12 months remaining at time of shipment from Physio-Control.

**ENVIRONMENTAL**

(Appplies to all products.)

**Atmospheric Pressure:** 797 to 429mmHg (-570 to 15,000 ft)
**Relative Humidity:** 0 – 95% (noncondensing)
**Operating Temperature Range:** 0°C to 55°C (32°F to 131°F)
**Long-Term Storage:** 15°C to 35°C (59°F to 95°F)

**ORDERING INFORMATION**

**Inside US:** Call 1.800.442.1142 and select option 6, or order online at our Physio-Control Web Store at http://store.physio-control.com
**Outside US:** Contact your local Physio-Control representative
Physio-Control Family of Products and Services

Defibrillators/Monitors

**LIFEPAK CR® Plus Automated External Defibrillator**
Featuring the same advanced technology trusted by emergency medical professionals—yet simple to use—the fully-automatic LIFEPAK CR Plus AED is designed specifically for the first person to respond to a victim of sudden cardiac arrest.

**LIFEPAK® 1000 Defibrillator**
The LIFEPAK 1000 Defibrillator is a powerful and compact device designed to treat cardiac arrest patients and provide continuous cardiac monitoring capabilities. Built-in flexibility allows the 1000 to be programmed for use by first responders or professionals and enables care providers to change protocols as standards of care evolve.

**LIFEPAK® 15 Monitor/Defibrillator**
The LIFEPAK 15 monitor/defibrillator is the new standard in emergency care for ALS teams who want the most clinically innovative, operationally effective, and LIFEPAK TOUGH device available today.

**LIFEPAK® 20e Defibrillator/Monitor**
Clinically advanced and packed with power, the LIFEPAK 20e defibrillator/monitor is highly intuitive for first responders, and also skillfully combines AED function with manual capability so that ACLS-trained clinicians can quickly and easily deliver advanced therapeutic care.

CPR Assistance

**LUCAS® Chest Compression System**
Designed to provide effective, consistent, and uninterrupted compressions according to AHA Guidelines, LUCAS can be used on adult patients in out-of-hospital and hospital settings.
Information Management

**LIFENET® System**
The LIFENET System provides EMS and hospital care teams with reliable, quick access to clinical information through a secure, web-based platform, helping to improve patient care flow and operational efficiency.

**CODE-STAT™ 9.0 Data Review Software**
CODE-STAT 9.0 data review software is a retrospective analysis tool that provides easy access to data, reports, and post-event review.

**ReadyLink™ 12-Lead ECG**
Handheld, portable, and easy-to-use, the revolutionary ReadyLink 12-Lead ECG quickly and easily captures and transmits 12-lead data to hospitals through the LIFENET System. Doctors can provide chest pain decision support, so teams in the field know exactly what kind of care the patient needs and where to take them.

Support

**Physio-Control Service**
As the world’s leading provider of defibrillation technology, Physio-Control understands our responsibility to maintain the reliability of our lifesaving defibrillator/monitors. We have over 100 field-based technical service representatives worldwide. Physio-Control is committed to service 24/7, and to returning a customer’s call within two hours to quickly assess the problem and find the best solution (U.S.). If needed, a technical service representative will be on-site within 24 hours (U.S.).
For more than 50 years, Physio-Control, maker of renowned LIFEPAK defibrillators, has been developing technologies and designing systems that are legendary among first response professionals, clinical care providers and the community.

Visit www.physio-control.com or call 1.800.442.1142 today.

REFERENCES


All information including comparative statements are valid as of October 2012.

For further information, please contact Physio-Control at 800.442.1142 (U.S.), 800.895.5896 (Canada) or visit our website at www.physio-control.com.

To order accessories online visit http://store.physio-control.com.