

## Zephyr BioHarness™ Strap

### PRODUCT DESCRIPTION

The BioHarness™ strap is a lightweight elasticised component which incorporates Zephyr Smart Fabric ECG and Breathing Rate sensors.

It is designed to be used in conjunction with a BioHarness Module – shown below, which captures and analyses sensor data from the strap. The module records or transmits this data to a remote location.

The strap is micro-adjustable over a range of fittings, and there are two sizes of strap available – XS – M and M - XL.



### Company Information

Zephyr Technology Limited  
1 Annapolis St  
Suite 200  
Annapolis  
MD 21401  
USA

Tel: +1 (443) 569-3603  
Fax: +1 (443) 926-9402  
Email: [info@zephyr-technology.com](mailto:info@zephyr-technology.com)  
[www.zephyr-technology.com](http://www.zephyr-technology.com)

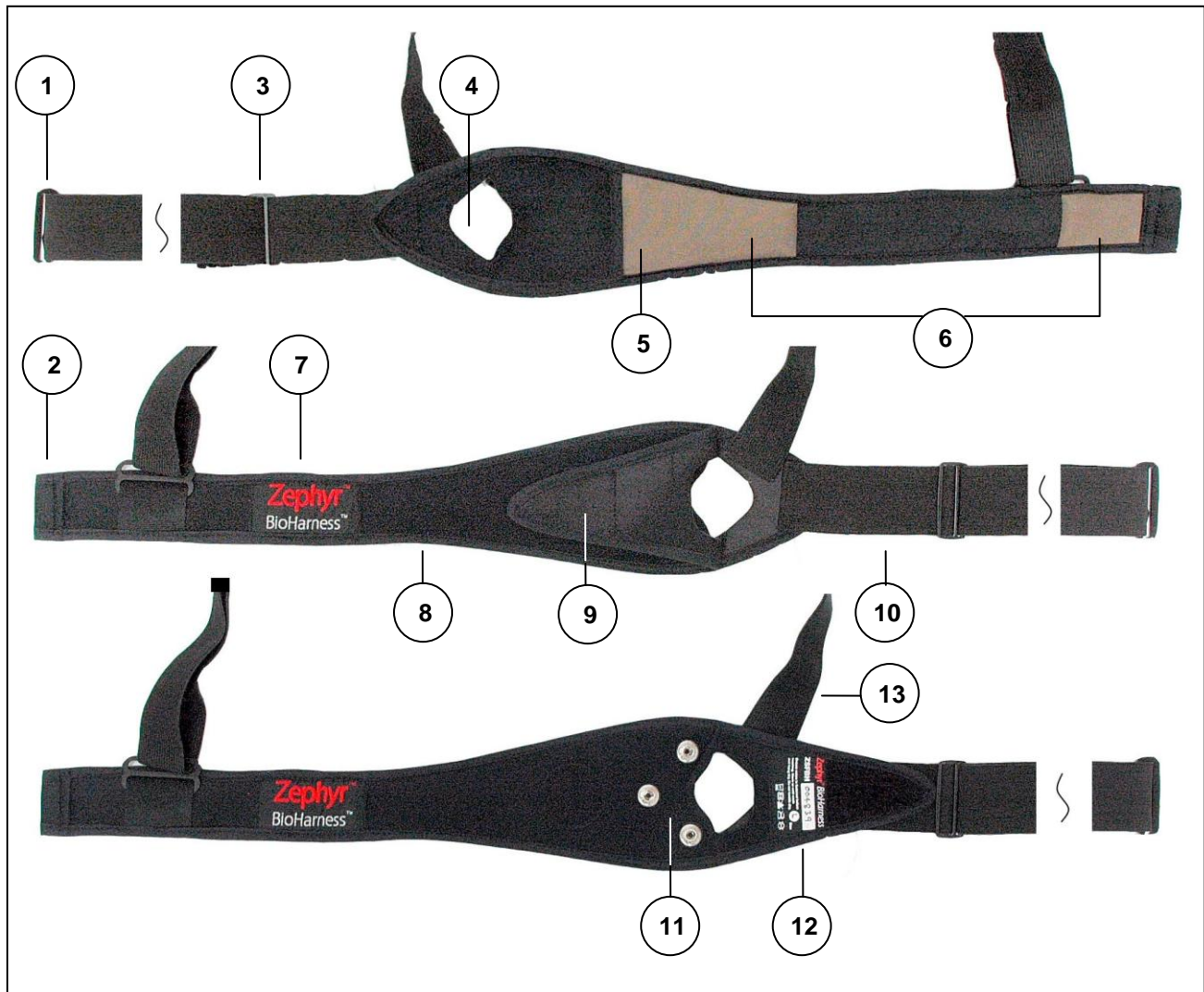
*Data subject to change*

### FEATURES

- Lightweight
- Fabric-based
- Elasticised
- Adjustable
- Comfortable
- Detachable shoulder strap
- Machine-washable
- Anti-bacterial sensor material
- Biocompatible

### APPLICATIONS

- Physiology and Exercise Physiology Research
- Sports Training
- Wireless Monitoring of First Responders



## Component Parts:

1. Main fastener hook
2. Main fastener sleeve
3. Size adjustment slider
4. Infrared temperature sensor aperture
5. Internal Breathing Rate Sensor
6. ECG sensors
7. Brand label
8. Strap main body
9. Device retaining cover (Velcro secured)
10. Strap (rear)
11. 3 x BioHarness Module attachment & connector snaps
12. Care label with Size, Serial # & Wash symbols
13. Shoulder strap (detachable)
14. Shoulder strap adjuster buckle (not visible)

## Material

steel  
steel  
EVA foam  
Silver-coated polyester  
Polyester  
Nylon  
Nylon  
Elasticized webbing  
Stainless steel  
Nylon  
Elasticized webbing  
ABS

## Identifying Marks & Wash Label



## Strap Sizes:

Size	To fit (cm)	To fit (Inches)	ZPN
Small (XS – M)	70 – 97	27 ½ – 38	9600.0189
Large (M – XL)	85 – 110	33 ½ – 43	9600.0190

Note that size is stated at the strap location when worn, which may be smaller than a subject's normal chest size.

## Shoulder Strap

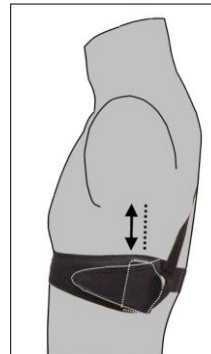
Integrated into chest strap, detachable and length adjustable.

Chest straps can be supplied individually or in packs of 5 or 50.

## Service Information

### Garment Location

- Device under arm, long edge lined below centre of armpit as shown, or slightly to rear, strap immediately *below* pectoral muscles as shown in photograph.



### Sensor Moistening

The garment will function with dry sensor surfaces, but it is recommended to lightly moisten the ECG sensor pads with tap water before use. This will ensure optimal performance of the garment. When against the skin during activity, perspiration will ensure the pads remain moist.

### Durability

The chest belt, like any other fabric garment will be exposed to sweat, dirt & detergents. It is designed to withstand the rigours of daily use. It should be treated like any other garment and washed regularly. Performance may degrade over time if the garment is not maintained according to the care instructions below. All materials are UV stable, but prolonged exposure to sunlight may cause discolouration of materials.

Recommended Wash Schedule:	Every 3 weeks of use
Minimum No. of Machine Washes:	80

### Care Instructions

For optimum performance, detach the BioHarness device and rinse the garment in water after use, to prevent salt and grime accumulation caused by perspiration.

### Washing

- Detach the BioHarness Module
- Hand wash using a mild soap or detergent
- Machine Wash:
  - Cool temperature (40°C maximum)
  - Delicate setting
  - Wash pouch recommended
  - Fasten Velcro®
  - Spin dry or hang out of direct sunlight
  - DO NOT TUMBLE DRY
  - DO NOT USE BLEACH or DISINFECTANT
  - DO NOT IRON
  - DO NOT DRY CLEAN

### Storage

- Store cool dry place out of direct sunlight

The information in this document is believed to be accurate in all respects at the time of publication but is subject to change without notice. Zephyr Technology assumes no responsibility for errors or omissions, and disclaims responsibility for any consequences resulting from the use of information included herein. Additionally, Zephyr Technology assumes no responsibility for the functioning of undescribed features or parameters. Zephyr Technology does not assume any liability arising out of the application or use of any product, and specifically disclaims any and all liability, including without limitation consequential or incidental damages.

Zephyr Technology products are not designed, intended or authorised for use in applications intended to support or sustain life, or for any application in which the failure of the Zephyr Technology product could create a situation where personal injury or death may occur. Should Buyer purchase or use Zephyr Technology products for any such unintended or unauthorised application, Buyer shall indemnify and hold Zephyr Technology harmless against all claims and damages.