



Electronics and Textiles – Two Worlds We Connect

About Us

Interactive Wear offers products and services in the field of electronics integration into textiles, and provides knowhow and experience in the successful industrialization of developed systems. Interactive Wear enables customers to develop wearable solutions, from idea to production.

As a one-stop-shop for the textile industry, Interactive Wear covers all developmental and production phases in the “wearable electronics” area – from consulting to custom development projects and all the way to the delivery of complete products that are ready for volume sales.

For OEMs and ODMs, Interactive Wear supplies tailored production solutions. Besides fashion trends, the target markets primarily include sportswear and health wear, safety clothing and protective work wear.

Why Interactive Wear

Interactive Wear customers gain benefits as:

- ❖ We are electronics experts, experienced in working with the apparel industry
- ❖ We are independent, so we are free to choose the best components available on the market
- ❖ We have access to a wide network of co-operating technology partners
- ❖ We qualify, test and certify our solutions

Our Customers

- ❖ Apparel sports and fashion industry
- ❖ Professional use garment developers
- ❖ Textile industry
- ❖ Wellness and healthcare industry

Our Products

We have a portfolio of readily available products that can be used in their existing form, or customized to fit specific customer requirements. In addition, we develop entirely new applications as specified by our clients. Some of our existing products are listed below:

- ❖ Entertainment and communication systems
- ❖ Solar and other mobile power systems
- ❖ Lighting solutions
- ❖ Garment heating systems
- ❖ Textile interconnection components

Our Services

If you develop a product and need an engineering, design or implementation support, we offer the following services:

- ❖ Product concept and feasibility studies
- ❖ Custom product development
- ❖ Certification and test system development
- ❖ Manufacturing set-up and control
- ❖ After sales service and support

Values You Will Find in all Interactive Wear Solutions

Our solutions are easy to integrate, comfortable to wear, practical, and easy to use. Our off-the-shelf lines of product are designed to be easily expandable and/or customizable according to customer requirements.

Modularity and flexible architecture will give your creative imagination a freedom to transform your ideas into exciting and successful products.

Picture: Switches with textile wires. Source: Interactive Wear

iComX – Integrated Entertainment and Communication

Interactive Wear integrates functions like Bluetooth wireless communication, and entertainment like iPod, into textiles and accessories. In addition to their practical and entertaining value, they provide a great potential to increase safety of users engaged in inherently dangerous activities. Our standard line of iComX products, comprise electronics, textile keypad, textile wiring, earphones, microphone and iPod interface.

Trademarks: Bluetooth SIG, Apple Made For iPod

iThermX – Active Heating with Comfort Control

Our modular heating platform improves the wearers' comfort in unstable temperature conditions. Microcontroller driven intelligent power management and temperature control delivers the right amount of energy when it is most needed. Our fully customized heating pads are available for many products, i.e. gloves, boots, pockets, collars, etc. Interactive Wear heating products comprise heating pads, rechargeable battery packs with chargers, sensors, and control electronics equipped with multiple levels of safety mechanisms. Products built with the Interactive Wear iThermX technology are small, light, mobile and very efficient.

Picture: Textile heating wire, Solaris heated glove by Reusch. Source: Interactive Wear, Reusch

iSolarX – Sustainable Power for Enhanced Mobility

Interactive Wear solar technology platform allows easy integration of complete solar power sources into garments, textile products, backpacks and bags. Our standard configurations consist of one or two solar cells, electronic charging controllers, rechargeable batteries, interconnecting textile wires and connectors for mp3 players, mobile phones, GPS receivers etc. The basic configuration delivers approximately 1 Watt of power when exposed to direct sunlight and will charge a buffer battery within about four hours. The highly efficient electronics features MPP tracking (maximum power point) as used for industrial solar plants. iSolarX combines practicality of free, renewable power with an elegant look, user selectable output voltage of 3,7V or USB compatible 5,0V, and customizable software to control heating or LEDs.

Picture: Zegna Sport SolarJKT Fall/Winter 09/10, Source: Interactive Wear

iLightX – Spotlight on Safety and Fashion

Our customized textile integrated lightning systems provide countless opportunities to create innovative designs, combined with convenience and safety features. We offer lights in different colours and intensity, and our controllers can be custom programmed to deliver variety of timing patterns and special effects. In addition to high intensity, bright coloured LEDs we offer very flexible distributed light sources, especially suitable to backlit logos, signs, images, and safety signal applications. Our L70 lighting system is available as add-on to our mobile power solutions, e.g. iSolarX, and L30 as a stand alone light source powered by standard batteries.

Picture: Bogner Future Outit Solar-LightSuit. Belt with coloured LEDs. Source: Bogner/Osram, Interactive Wear

