

CYCLING JACKET WITH SIGNALLING LED

This jacket for cyclists offers increased safety as it signals when the biker wants to change the direction or slows the speed down. It could be used by a rider on a motorbike or an inline skater. On the back part and on the sleeves of the jacket, there are built-in LED diodes, which are connected to the handlebars. The cyclist has two compact modules (long-life battery, controlling electronics and a wireless communication unit). One module contains a digital receiver of signals from three sensors on the bike. The second module controls four active sections in the jacket. The assembly and integration in the jacket and on the bike are very easy and they do not limit the movement of the cyclist. The breathable material of the jacket makes it very pleasant to wear and the maintenance is easy. The University team have cooperated with two companies, KALAS and APPLYCON, on mass production of the product. The product has been awarded with the Silver Award at the ARCA 2012 in Croatia, the Senate of the Czech Republic Award for Innovation of the year 2012 and the Prize for Grand Prix for Bikes in 2013.

