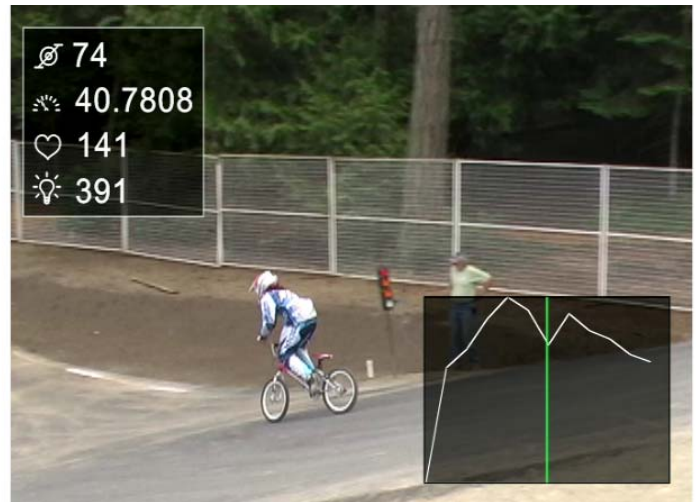


Performance Point

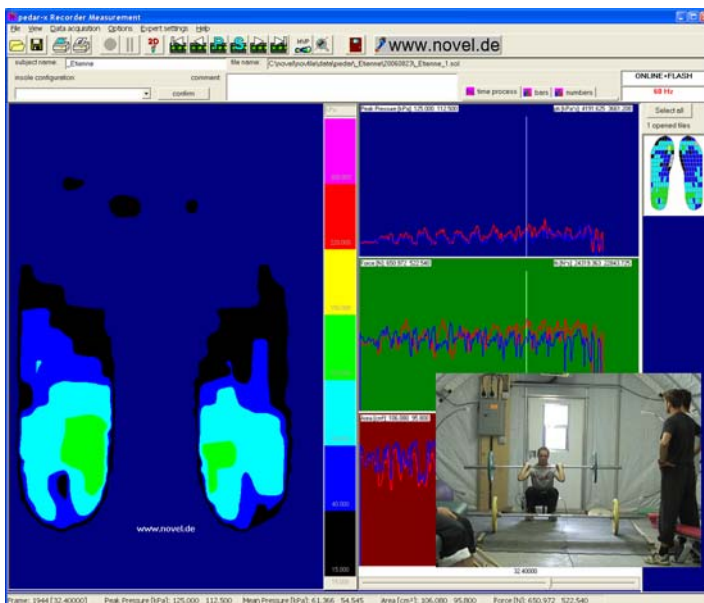
Data Integration with Video

by Dr. Allan Wrigley, Biomechanist, Canadian Sport Centre Pacific

Video capture, analysis, and review has become a central component of many coaches' training programs. Numerous sport technology companies are realizing the value of combining video with sensor output, thereby increasing the interpretability and usability of their equipment. Although combining sensor data with video seems simple enough, there are a number of hurdles that must be overcome in order to reach the full potential of seamless integration. These include how the sensor data is transmitted to the computer, differences in sampling rates between sensors and captured video, and the process of synchronizing in real-time. What this means for the coach is that if the sensor company does not provide software to integrate the data with video, the coach does not have the means to do so.



SRM data synced with captured video through Dartfish.



Video captured in real-time synchronized with pressure insole data.

However, some companies like Dartfish (www.dartfish.com) are producing 'readers' that can import data into their software so that the coach or technician can match it with previously captured video. Other companies like Novel (www.novel.de) are producing video import features in the sensor software. These types of innovations represent a big step forward in terms of making technology and sport specific sensors practical to a much broader group of coaches and sport organizations that may not be able to employ a technician to support their technology demands. Although features like data integration with video represent a sometimes substantial increase in the price of a sensor, the benefits to interpretation and quality of feedback to athletes may pay off. This is one feature that coaches and sport organizations may want to consider when shopping around for the next big innovation in sport technology.

To learn about the role of Biomechanics in sport, please see the link below.

<http://www.pacificsport.com/Content/Main/PSBC/Programs/PerformanceServices/BiomechanicsNEW.asp>

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