

The invention relates to the field of sports metrology, particularly to methods for recording the motion trajectory of human body and separate parts thereof.

The method for recording the motion trajectory of human body and separate parts thereof consists in that in significant human body points it is placed a device for recording the motion trajectory thereof, including three angular displacement measuring transducers, oriented towards mutually perpendicular axes X, Y, Z, and the signals received from the transducers are recorded. On the body there are placed at least five human body motion trajectory measurement devices, each including additionally three linear displacement measuring transducers, oriented towards mutually perpendicular axes X, Y, Y and a three-dimensional compass on base of semiconductors. The signals received from the outputs of all transducers and of the compass are transmitted through an analog multiplexer to an analog-to-digital converter, are encoded and recorded in the flash memory, the data of which are read by means of a high-speed USB interface of an external computer.

The device for recording the motion trajectory of human body and separate parts thereof comprises three angular displacement measuring transducers (1, 2, 3), oriented towards mutually perpendicular axes X, Y, Z, an analog multiplexer (9), the inputs of which are connected to the outputs of the transducers (1, 2, 3), an analog-to-digital converter (10), the input of which is connected to the output of the analog multiplexer (9), a microcontroller (11), the input of which is connected to the output of the analog-to-digital converter (10), a flash memory (14) and a high-speed USB interface (13), the inputs/outputs of which are connected to the microcontroller (11). The recording device includes additionally three linear displacement measuring transducers (4, 5, 6), oriented towards mutually perpendicular axes X, Y, Z, and a three-dimensional compass (7) on base of semiconductors, the outputs of which are connected to the inputs of the analog multiplexer (9).

Claims: 2

Fig.: 1

