

Abstract

The invention relates to a method and a system for tracking a moving object. It may be used in virtual or augmented reality systems, in-site logistics systems (in production, warehouse or store), robotics systems, control systems of unmanned moving objects and other kinds of industrial, scientific, training systems, etc. The method of tracking includes a step of automatic adjusting a tracking area by detection and registration of unique combinations of elementary optical patterns, and a step of tracking change in position and/or orientation of a moving object by detection of unique combinations of elementary optical patterns and comparison thereof with the unique combinations of elementary optical patterns registered during the tracking area adjustment. The system for tracking a moving object comprises at least one tracker located on a moving object the tracker including an optical sensor, at least one marker strip including active markers forming elementary optical patterns in a picture obtained from the optical sensor, and a central processing unit.

Fig. 1