Computer controlled camera slider

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Abstract

This bachelor's thesis aims to build a simple, expandable and cheap slider for photographic devices - so-called camera slider. The mechanical part of the device is in a form of round metal rails, on which a carriage is moved using a toothed belt and a motor, firmly fixed on one side of the rails. Controlling is done by a commonly available and programmable device called Arduino. The user interface is provided by a joystick and a small display. It is possible to configure the slider via the serial interface from a GUI application.

The benefits of this work include easy future device-expansion (it is possible to connect and control up to three motors) and affordable price. The slider is suitable for creating timelapses.

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