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## SPECIFICS OF MEASURING TRAJECTORY VELOCITY OF SMALL AIRCRAFT BY MEANS OF OPTICAL CHRONOGRAPHS

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### Abstract

The study focuses on optical chronograph design. We pinpoint the specifics of their functioning under various environmental conditions. We used chronographs to measure trajectory velocity of small aircraft, provided that the trajectory segment under consideration is horizontal or close to horizontal. We employed chronographs to work with small aircraft samples on a ballistic track. We calibrated the chronographs over the course of conducting several experiments. We computed the drag coefficient of the aircraft sample.

### Keywords

Optical chronograph, velocity measurement, drag coefficient, trajectory velocity, ballistic track

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