

Measurement of fluorescent telescope optical properties in TA experiments using UAV

We have developed an “Opt-copter” as a calibration device for fluorescence detectors (FDs). opt-copter is a UAV equipped with a light source.

The Opt-copter is equipped with a high-precision RTK-GPS, which enables it to fly within the field of view (FOV) of the FD while accurately measuring the position of the light source.

This allows detailed measurement of the FD’s optical characteristics (FOV direction and spot size).

In this paper, we report the analysis method and results of the optical characteristics of the FD using data obtained with the Opt-copter.

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