

FOV direction and real image size calibration of Fluorescence Detector using light source mounted on the UAV

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We have developed the “Opt-copter” as a calibration device for fluorescence detectors (FDs). The Opt-copter is a UAV equipped with a light source. The Opt-copter is also equipped with a RTK-GPS of 10 cm position measurement resolution, which allows it to fly within the FD’s field of view(FOV) while accurately measuring the position of the light source. This allows us to measure the optical properties of the FD in detail. In this paper, the results of the analysis of the FD’s FOV direction and real image size using the data obtained by the opt-copter will be reported.

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UAV; Fluorescence detector; calibration;

Collaboration

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Subcategory

Experimental Methods & Instrumentation

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