



ID: P3.3-076

Type: E-poster

study of the multispectral equipment based on the first OSI equipment list

In 2021, PTS presented the first comprehensive draft list of equipment for use during OSI, which is another milestone for the further development of the OSI verification regime. Multispectral imaging plays a vital role for the identification of potential OSI related anomalies and observables like abnormal heat sources, surface disturbances of vegetation and soil. In this work, further study of the multispectral equipment based on the first OSI equipment list has been carried out. An airborne OSI multispectral imaging system covering the core specifications of the OSI multispectral equipment has been proposed, with the spectral range from 0.3 to 2.5 μm . Based on the system, a series of field tests to detect the simulated OSI anomalies and artifacts have been carried out. Based on the obtained multispectral image data, an OSI-relevant information extraction model has been established, in the meanwhile, data processing and an information extraction software platform have also been developed, which can be used for further development of OSI multispectral equipment.

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Session Classification: P3.3 On-Site Inspection Relevant Techniques

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.3 On-Site Inspection Relevant Techniques