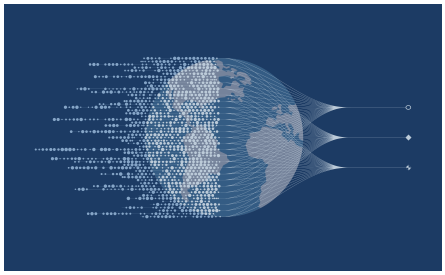

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the initial and multispectral overflight configurations

The initial overflight (IOF) and the additional overflight (AOF) multispectral (MSIR) configurations for use during an on-site inspection (OSI) have been reengineered to simplify installation, enhance ease-of-use, maximise capabilities as well as streamlining downstream data processing. These changes have been undertaken in compliance with the specifications listed in the First Comprehensive Draft List of Equipment for Use During On-Site Inspections (INF1573 rev1). The reengineered configurations utilise a common positioning antenna (GNSS) and power distribution unit. The initial overflight configuration itself now includes four dedicated handheld video cameras with audio recording possibility, each triggered independently by the inspectors onboard. The track, base map and recordings are displayed on individual inspector tablets with data stored centrally. The AOF configuration for MSIR comprises dedicated imaging devices for the visible, near-infrared and thermal regions of the spectrum. The thermal imaging camera is a cooled photon detector sensing in the 2.0 – 5.5µm range. It also features a lidar and mechanical shutters triggered from inside the cabin. The configuration has a reengineered display and control panel to facilitate data collection, and the data processing workflow is enhanced through a custom user-friendly application to pre-process data.

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