AVIATION :

| **Product code** | CZK-AVIATION |
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| **Hardware Platform** | Edge: Nvidia Jetson Series, Sophgo Micro Servers  Central: Nvidia H100, L40, RTX 4000 Series, RTX 5000 Series Ada, A16, A30, Sophon AI server |
| **Operating System** | Ubuntu, MS Windows |
| **Management Interface** | Web-Based Management Software |
| **Database** | PostgreSQL |
| **Development Approach** | Microservice, containerized |
| **Frontend** | React |
| **Backend** | Python |
| **3rd party Integration** | 3rd Party API Integration  Camera Support: RTSP, ONVIF |
| **Keywords** |  |

**Specific Video Analytics Applications:**

* Perimeter Security: Intrusion detection, fence line monitoring.
* Airport Traffic Management: Aircraft tracking, ground vehicle monitoring.
* Passenger Flow Analysis: Queue management, crowd control.
* Baggage Handling Monitoring: Tracking and security.
* Foreign Object Detection (FOD) on runways.

**Key Benefits:**

* **Enhanced Security** – Detects threats at security checkpoints and restricted areas.
* **Improved Passenger Experience** – Optimizes queue management and reduces wait times.
* **Baggage Tracking Efficiency** – Reduces lost baggage incidents through AI tracking.
* **Operational Optimization** – Provides real-time insights into passenger flow and airport activity.