Critical Infrastructure :

| **Product code** | CZK-CriticalInfra |
| --- | --- |
| **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** – Protects server rooms from unauthorized access.
* **Access Control with Face Recognition** – Manages entry for authorized personnel.
* **Abnormal Activity Detection** – Identifies security threats and operational anomalies.
* **Unauthorized Access Detection** – Prevents security breaches.
* **Fire and Smoke Detection** – Ensures safety for data infrastructure.
* **Server Room Occupancy Monitoring** – Tracks personnel inside data-sensitive areas.

**Key Benefits:**

* **Access Control & Security – Prevents unauthorized personnel from entering.**
* **Threat and Intrusion Detection – Monitors for potential cyber or physical threats.**
* **Fire and Smoke Detection – Prevents damage to sensitive infrastructure.**