CATCH.AI Starter Kit

All-in-one solution for data collection from production lines

Overview

The CATCH.AI Starter Kit is a **data platform in a box**. It includes various hardware components, such as CCTV cameras, IoT sensors, and PLC connectivity, all preconfigured to send data to the installed data platform. The kit is powered by CATCH.AI, a data platform that provides advanced analytics and supports decision making for your equipment/assets/machines.
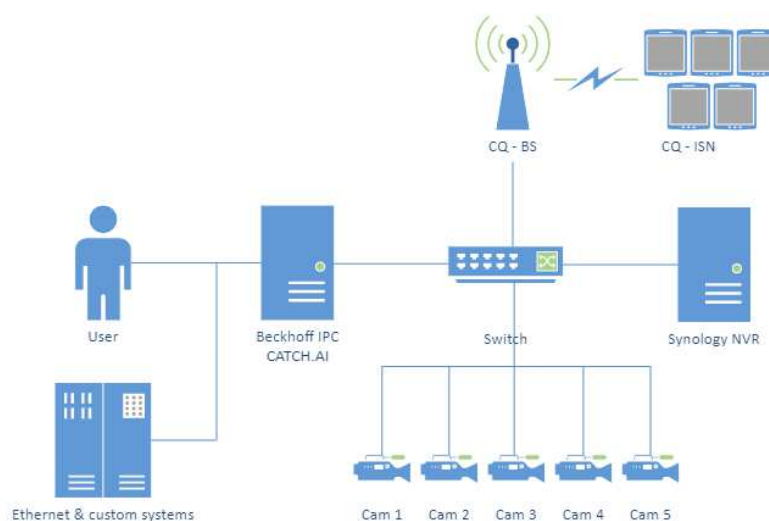
Features

- Easy installation and setup: The kit comes with a user-friendly guide that walks you through the steps to connect the hardware components and activate the data platform. You can start collecting and processing data in minutes.

- Easy usage: Access to continuously updated E-learning, explaining how to use the data platform and to get inspiration for data use cases.

- Flexible and scalable: The kit supports various types of data sources, such as video, audio, temperature, humidity, pressure, and more. You can add or remove sensors and cameras as needed. The data platform can handle large volumes of data and scale up or down according to your needs.

- Secure and reliable: The data platform supports encryption and authentication protocols to ensure the security and privacy of your data. The data platform has built-in retention and compression mechanisms to ensure high availability.

- OEE measurement capabilities using PLC data or retrofit sensors.

- PLC connectivity: A module that enables the data platform to communicate with programmable logic controllers (PLCs) that control industrial machines and equipment.

- Expandable through customer-specific protocols.

Hardware Components

- Beckhoff IPC: A rugged industrial PC that runs the data platform, stores the data locally and a NAS for video streams.

- CCTV cameras: Four 30 FPS cameras and one 180 FPS camera that capture video and audio data from different angles.

- IoT sensors: Five wireless sensors that measure various physical and environmental parameters, such as acceleration, gyroscope, magnetometer, temperature, sound, and air pressure. Battery-powered with a range of up to 100 meters. They are connected to the Beckhoff IPC via a Base Station, a device that receives and transmits data from the sensors via BLE (Bluetooth Low Energy).

Specifications

- Beckhoff IPC: 160 GB SSD, 16 GB RAM and dual ethernet.
- NAS: Synology 1TB.
- CCTV: 4x 30 FPS PoE 5MP, 1x 180 FPS PoE.
- IoT Sensor: 5x battery/external powered sensor with option to measure acceleration, gyroscope, magnetometer, temperature, sound and air pressure.
- Industrial protocols: OPC-UA, OPC-DA, Beckhoff ADS, Modbus, MQTT, EthernetIP, JSON Rest API, CSV files.

Benefits

- Intelligent and actionable: The CATCH.AI data platform provides advanced analytics and insights. Create dashboards, reports, alerts, and recommendations to improve performance and efficiency.

- Save time and money: No complex and costly data infrastructure and software. Collect and process data from multiple sources and locations with minimal maintenance and operational costs.

- Gain competitive edge: Use the kit to optimize your processes, enhance your customer experience, and increase your revenue and profitability.

- Avoid IT hassle: Simplify the data management process and reduce the dependency on internal IT resources. Set up and run your data platform without having to deal with IT issues or permissions in the start-up phase.

About CIM.AS

Providing software solutions that capture data and provide insights, CIM empowers world-leading companies within the pharmaceutical industry, industrial manufacturing, and many other fields to act on facts and reach their quality, productivity, and sustainability goals.

Read more at www.cim.as