

Innodisk AI for Surveillance

Innodisk, a global AIoT solutions provider, has developed an AI solution for surveillance. This solution features a CIC (Camera Integrity Check) tool that automatically checks cameras and generates reports. Vague images, black images, and images resulting from unexpected camera movement and camera disconnections are expelled by the CIC.

Challenges & Innodisk AI Solutions



Limited camera support

Innodisk Al's solution is able to support 500 channels for camera checking.

Heavy employee load

CIC is an automatic camera checking tool relieving human resource loads.

Lack of remote management



Al recognition inaccuracy

Customized self training AI models increase accuracy of the camera image.



Poor disaster recovery

Out of band signaling with InnoAgent ensures access when the in-band network is down.





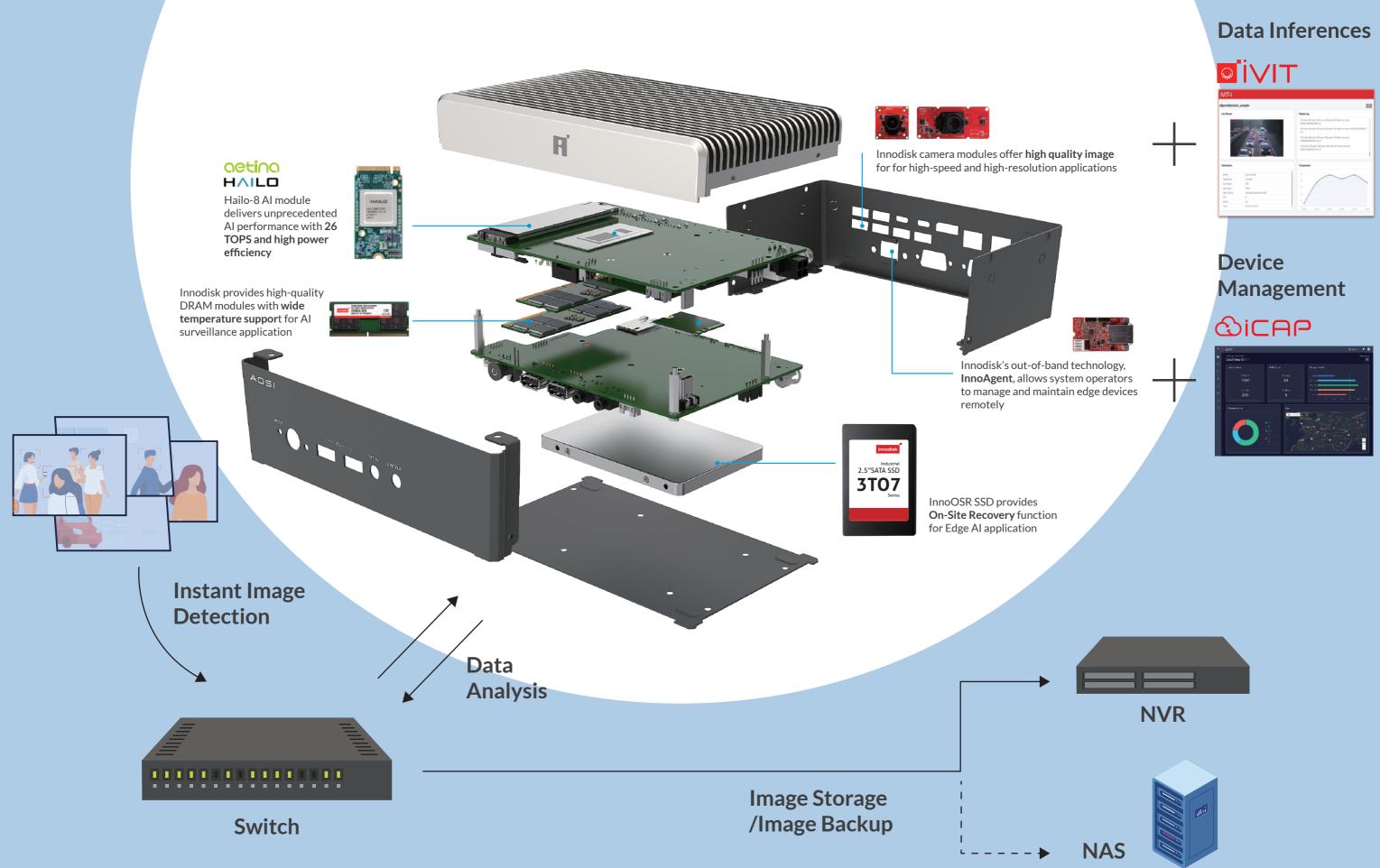
Non-customizable alarms

Alarm mechanisms are able to be adjusted by the customer.



Support for iCAP (Cloud Administration Platform) allows remote maintenance.

Innodisk AI Surveillance Application Architecture



AI in Surveillance Case Studies



Cement Factory

The solutions were successfully deployed in a cement factory in Hualien, Taiwan, to improve surveillance. The primary goal was to reduce accidents in a challenging, dusty environment. The implemented camera checks encompassed monitoring for dust accumulation on the screens, camera focus adjustments, black screens, and unexpected camera movements. These measures significantly contributed to maintaining a high level of security within the facility.

MRT Station

To enhance surveillance capabilities, the Innodisk AI solutions were deployed in an MRT (Mass Rapid Transit), one of the major public transportation stations. Due to the large size of the station and the presence of a substantial crowd, it is challenging for a small team of guards to monitor all the cameras manually. However, by leveraging the Innodisk AI solution with an automated CIC solution, continuous monitoring of all cameras has become feasible. This innovative system detects and alerts for abnormalities, allowing the cameras to record the intended content consistently.



Publ		Cloud Management
FPGA Mo	GPU Model ZOO	Al Training / Inference
	iSMART / iTrack /iOPAL / iRAII	Edge Utility (SW / FW)
BSP/Driv Mi		OS Integrations
AloT Pe (Embe Card & C Virtua	AloT Platform (FPGA / GPU / ASIC / CPU)	Edge Device

Innodisk Group Solution

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Innodisk SSDs are high-perfor-Innodisk DRAM is a high-speed, mance storage devices designed for industrial and

high-capacity memory module designed for use in a wide range of industrial offer robustness, reliability, and applications. It features reliable performance. durability, and advanced data protection, making it ideal for harsh environments.

DRAM

Oantzer



Al solutions for Al training. inference, and computing, powered by NVIDIA's GPU and AI accelerators.

SSD

embedded applications. They

endurance, with features such

as power-loss protection, error

correction, and advanced data

security.



Communication and system integration enable fleet management and data collection.

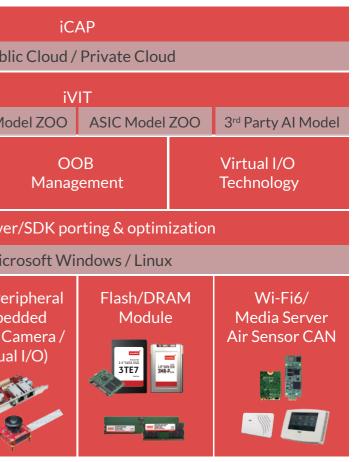


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Camera



Innodisk camera modules optimize image quality for different AI applications depending on the needs of customers, in order to meet the demand for high-speed and high-resolution applications in different embedded systems.

Embedded Peripherals



Embedded peripherals like LAN, PoE, CAN bus, DIO, serial port, storage, RAID, and display add functionality to systems. Innodisk aims to create expandable and space-efficient expansion modules to increase flexibility and lower TCO.

*((***.** MILLITRONIC





Wireless software defined network and virtualized connectivity products for modern applications.



Ensures safe indoor and outdoor air quality through sophisticated and robust sensors.