Real-time AI Inference Ensures Accurate 3D Virtual Fence Solution

40% of workplace injuries are caused by accidental contact with harmful objects or substances, and the cost of workplace injury is serious, especially in the factory. To reduce the occurrence of accidents, a 3D virtual fence solution was developed, consisting of Aetina MegaEdge AIP-SQ37 Series, several smart 3D sensors and motion recognition algorithms. When intruders are detected by smart 3D sensors, AIP-SQ37 Series will inference those skeletons in real-time. Meanwhile, motion recognition algorithms ensure the recognition result is precise, sending alarm signals or stopping the operation of robotic arms.

✔ Benefits

- Integrated one MXM slot to support MXM Type B module, enhancing computing power

- Comprised of solid components with long-term stability

- Equipped with two removable 2.5" SSD drive trays, allowing users to swap SSD quickly

📊 Results

- Efficiently prevents people from accessing to 3D virtual space

- Dramatically improves workplace safety

Smart 3D sensor

AIP-SQ37 Series

STOP

Collaborative Mode Speed

Full Speed

1. **Detect and transmit video image data**

2. **Inference in real-time and stop the robotic arm**