AI Video Analytics Solution for Confined Space Monitoring

REC GREEN Technologies Co., Ltd.
A wholly-owned subsidiary of Yau Lee Holdings Limited

POWERED BY CarryAI

The system consists of two weatherproof cases, namely the monitoring station and equipment unit.
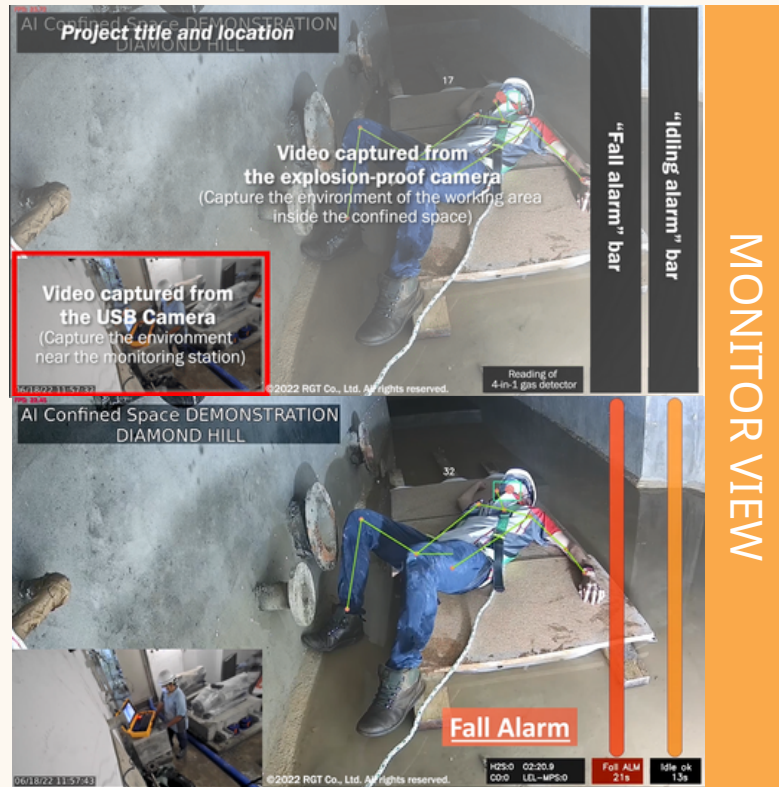
Equipment Unit
- Explosion-proof camera (with cable and mounting clamp)
- USB camera (with cable)
- 4-in-1 gas detector
- Power cord
- Safety wire slings

Monitoring Station
- Controller with USB ports and LAN ports
- Monitor
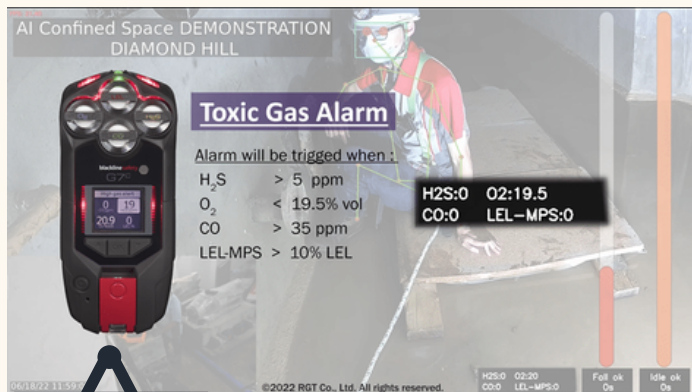- Visual and audible alarm
- Wireless keyboard

MONITOR VIEW

Project title and location

Video captured from the explosion-proof camera
(Capture the environment of the working area inside the confined space)

Video captured from the USB Camera
(Capture the environment near the monitoring station)

"Fall alarm" bar

"idling alarm" bar

Reading of 4-in-1 gas detector

AI Confined Space DEMONSTRATION DIAMOND HILL

Fall Alarm

MAJOR FEATURES

Human Pose Detection : Fall Alarm & Idling Alarm

Fall Alarm

Idling Alarm

Toxic Gas Detection
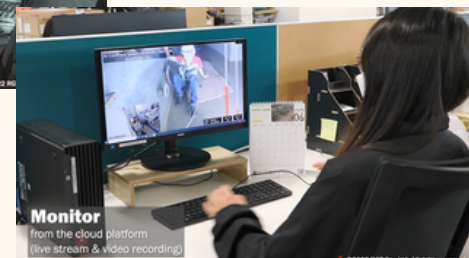
Toxic Gas Alarm

Alarm will be trigged when :
H_2S > 5 ppm
O_2 < 19.5% vol
CO > 35 ppm
LEL-MPS > 10% LEL

H2S:0   O2:19.5
CO:0   LEL-MPS:0

Live stream & Video recording

Monitor from the monitoring station

Cloud Platform

Monitor from the cloud platform (live stream & video recording)

CONTACT US

📞 852 2619 8817   🖨 852 2481 2870   ✉ rgt@rec-eng.com   📱 852 9238 0703
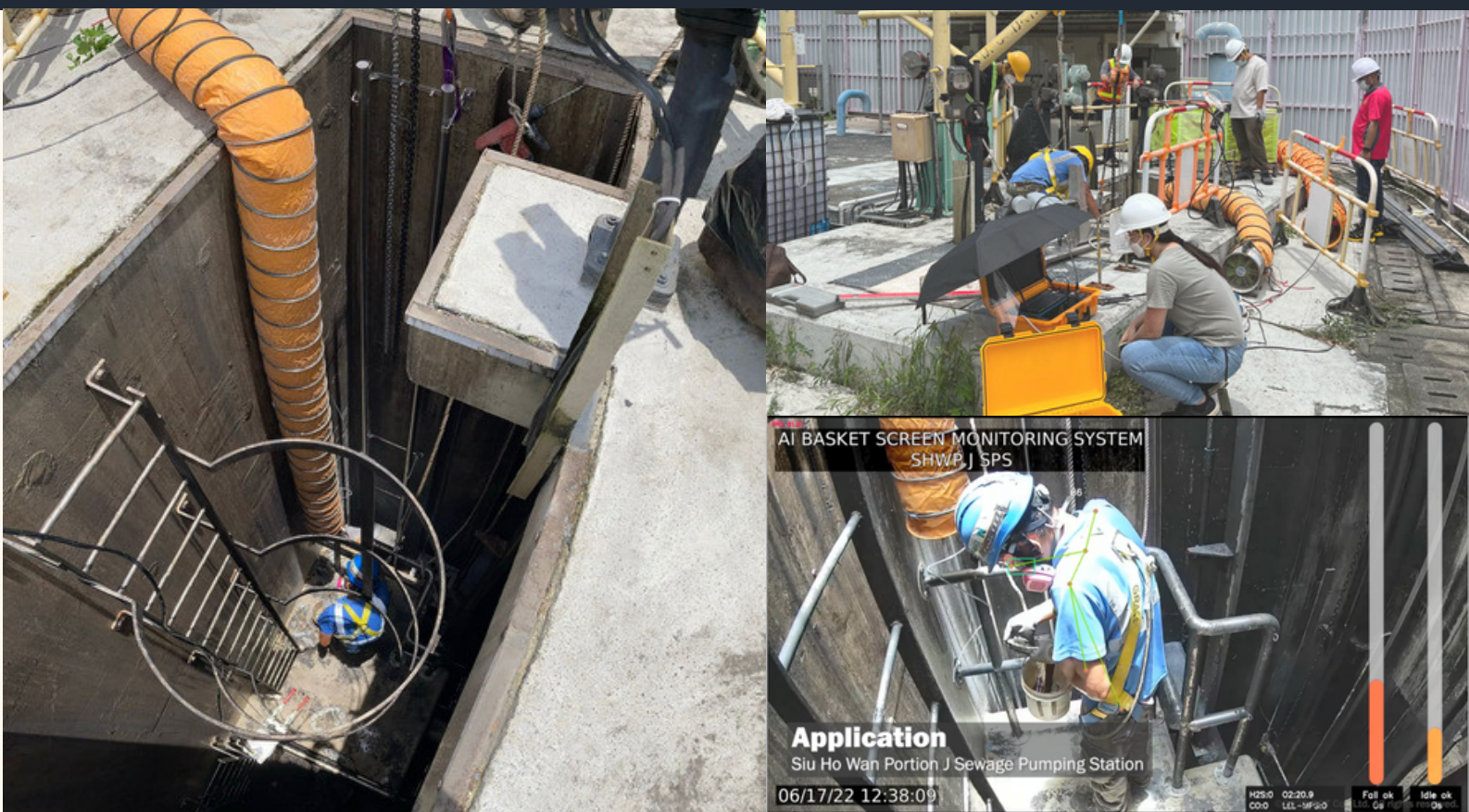
A.I. Video Analytics Technology

Pose Recognition

- AI - Deep Learning
- Able to reconstruct 18-points in skeleton
- High accuracy in detection of actual body state
- Able to detect multiple pose at same time

- Head   Nose, L+R eye, L+R ear
- Upper Body   Neck, L+R Shoulder, L+R Elbow, L+R Wrist
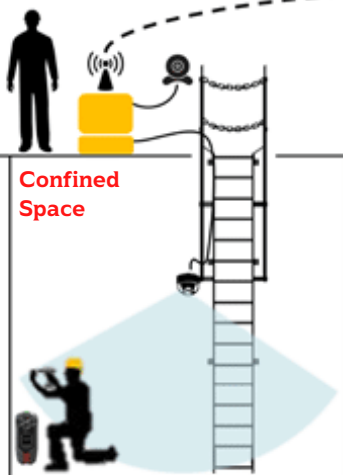- Lower Body   L+R Hip, L+R Knee, L+R Ankle

Human Pose Detection - Idling alarm & Fall Alarm

Operation

1

Place the monitoring station outside the confined space, connected with USB camera

3

Worker carrying a 4-in-1 gas detector, the reading and alarm will be sent to the cloud platform in real-time basis, and also will be shown on the monitoring station

Confined Space

2

Mount the explosion-proof camera inside the confined space, connect it to the monitoring station

4

Upload the captured video and information to cloud platform via 4G network

Cloud Platform
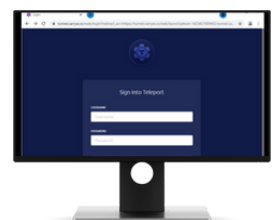
5

Video and information can be viewed via internet browser, and real-time notification will be sent by SMS and/or email

CONTACT US

📞 852 2619 8817   📠 852 2481 2870   ✉️ rgt@rec-eng.com   📱 852 9238 0703