

Forklift Background and Analysis

- 1. Surge demand for forklift: In 2022, global forklift sales are approximately 1.87 million units.
- 2. Increasing demand for AI Security Products

There are lots of blind spots for forklift drivers, and due to irregular behaviors (fatigue, distraction etc) and operations (overspeed), accidents will easily happen when in operation, causing property damage or human injury. It is a huge cost.

3. Lack of control and management for the fleets Operations of Illegal drivers











Authorized Operation Face Recognition

Face recognition are required before operation. Computer image processing technology is used to extract portrait feature points from the video for intelligent analysis to prevent drivers from skipping work and other unregistered drivers from operating the vehicle.











Driver Monitoring Status Analysis

Dangerous behaviors will be detected by DMS camera such as Fatigue(eye close, yawn), distraction, smoking and calling, also will send voice alarms to drivers and alarms will be uploaded into the operation center.





Blind Spot Detection

BSD camera is optional. People in blind spot area can be detected. When people are detected in blind area, there will be different level alarms including sound and lamp. Once people are in the impact zone, The forklift automatically brakes to stop (with throttle controller)









Safety Seatbelt Monitoring

After installing the seat belt warning device, the vehicle will not be started if the seat belt is not fastened.



- > Real-time monitoring of non-fastening of seat belts and alarm reminders will be carried out.
- Violation alarms will be uploaded to the platform for statistical analysis to ensure the safety of forklift operators.





Speed Sensor and Alarm Reminder (R-WATCH)

Speed perception will be carried in a field without positioning. It also provides voice and beep sound prompts for speeding, and can display alarm type and vehicle speed





Other Functions

Data recording

Switching time and working time, loading time and mileage



Reminder function

Forklift maintenance, annual inspections, operator certificate and equipment expiry reminders









Accident recording

Driver identity information, time of occurrence, location and other information





Vehicle dispatching system

Reasonable calls based on resource conditions, avoiding uneven distribution of resources









Vehicle Management Software(VMS)

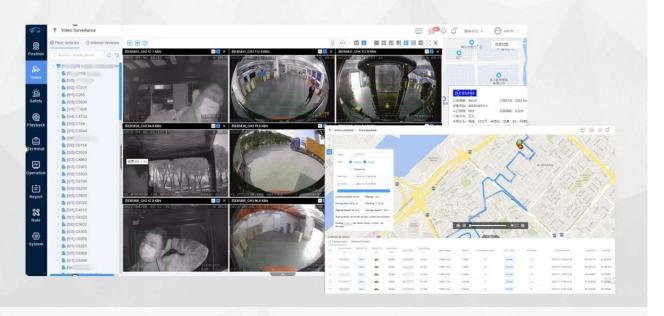
VMS is the key of whole monitoring system. Management and scheduling: All vehicle videos, GPS information, alarm information, video management, user management, etc. all are operated and managed by the system platform.





Video and Track Playback

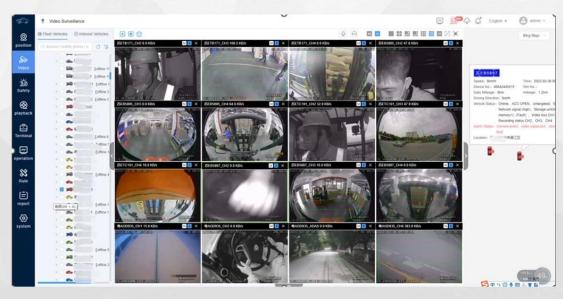
Including GPS tracking, video playback, alarm attachments etc





Live Video

Real-time video browsing, supports simultaneous browsing of multiple screens, vehicle location information, equipment status, GPS map display, etc.





Operation Management

Evidence query such as video loss, offline, GPS abnormal and other vehicle information

